09-18-2020 LETTING ITEM 014

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 62M72		

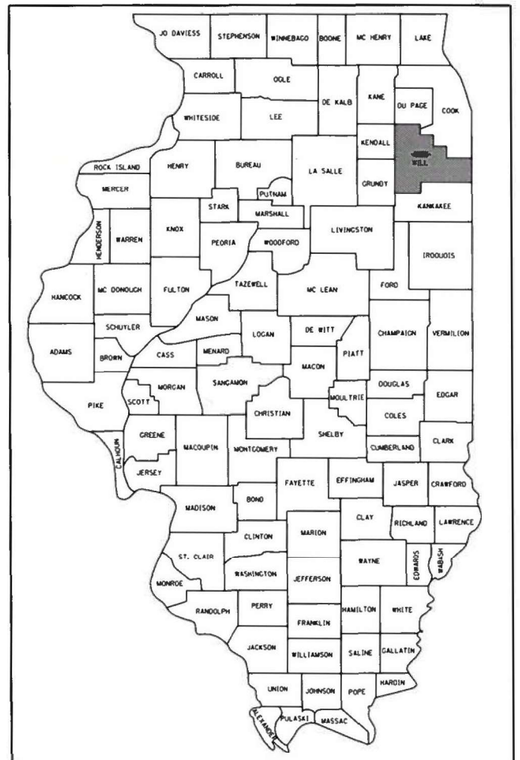
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

VARIOUS LOCATIONS IN THE CITY OF JOLIET
CONTRACT B
SECTION: 2020–196–TS&I
PROJECT: HSIP–MVN0 (936)
TRAFFIC SIGNAL MODERNIZATION AND RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATE INSTALLATION
WILL COUNTY
C–91–399–20

FOR INDEX OF SHEETS, SEE SHEET NO. 2

D–91–597–20



LOCATION OF SECTION INDICATED THUS: –

R 9 E AND R 10 E

T 3 5 N

FOR LOCATION MAP
SEE SHEET NO. 3

JOLIET TOWNSHIP
AND
TROY TOWNSHIP

100' 200' 300' — 1" = 100'
10' 20' 30' — 1" = 10'
50' 100' — 1" = 50'
50' 100' — 1" = 40'
50' 100' — 1" = 30'
50' 100' — 1" = 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123
OR 811

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 23 20 20

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 14, 2020

ENGINEER OF DESIGN AND ENVIRONMENT

August 14, 2020

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: IOVAN PLASCENCIA / KAMIL KOBYLKA
PROJECT MANAGER: LUKASZ POCIECHA

CONTRACT NO. 62M72

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV-SEP

INDEX OF SHEETS

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
877001-08	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877002-04	STEEL MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
877011-10	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-07	STEEL COMB. MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION. THE CONTRACTOR SHALL CALL "J.U.L.I.E," AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV, 72 HOURS IN ADVANCE OF BEGINNING WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARMS LENGTHS.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES. LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES. CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR. THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC. , AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGED TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

THE HOLE FOR THE EXISTING CONDUIT TO BE ABANDONED THROUGHOUT THIS PROJECT AT ANY EXISTING HANDHOLES WILL BE PLUGGED UPON COMPLETION OF THE TRAFFIC SIGNAL WORK.

PARTIAL PAYMENT AS DESCRIBED IN ARTICLE 109.07(b) OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED FOR ITEMS INCLUDED IN THIS CONTRACT.

LOCATIONS WITH PEDESTRIAN EQUIPMENT HAVE BEEN DESIGNED TO BE ADA COMPLIANT. ANY DEVIATION FROM THE THE PLANS FOR TRAFFIC SIGNAL MAST ARM/POSTS THAT HAVE PEDESTRIAN EQUIPMENT WILL HAVE TO BE APPROVED BY THE ENGINEER TO INSURE ADA COMPLIANCE.

CONTRACTOR SHALL ABANDON EXISTING CABLES IN CONDUIT UNLESS NOTED OTHERWISE ON THE PLANS. ALL ABANDONED CABLES SHALL BE TAGGED AND LABELED “ABANDONED” AT ALL HANDHOLES THEY PASS THROUGH OR TERMINATE IN. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM “REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT” AND NO EXTRA COMPENSATION SHALL BE MADE.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT BORING AND DRILLING THROUGH BEDROCK AND COBBLE DEFINED AS ROCK HEREIN MAY BE REQUIRED. IF BORING AND/OR DRILLING THROUGH ROCK IS REQUIRED, THE CONTRACTOR WILL BE PAID FOR DIRECTIONAL BORING THROUGH ROCK AND DRILLED SHAFT IN ROCK IN ADDITION TO THE ITEMS SHOWN ON THE PLANS. NOMINAL QUANTITIES HAVE BEEN PROVIDED IF AND WHEN BORING AND/OR DRILLING THROUGH ROCK IS REQUIRED. SHOULD COBBLES PREVENT BORING, THE COST FOR PROVIDING SPECIALTY EQUIPMENT (I.E. ROCK BORE MACHINE) AND/OR OPEN TRENCH AND RESTORATION ARE INCLUDED IN THE PAY ITEMS.

REV-SEP

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -	
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	2
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

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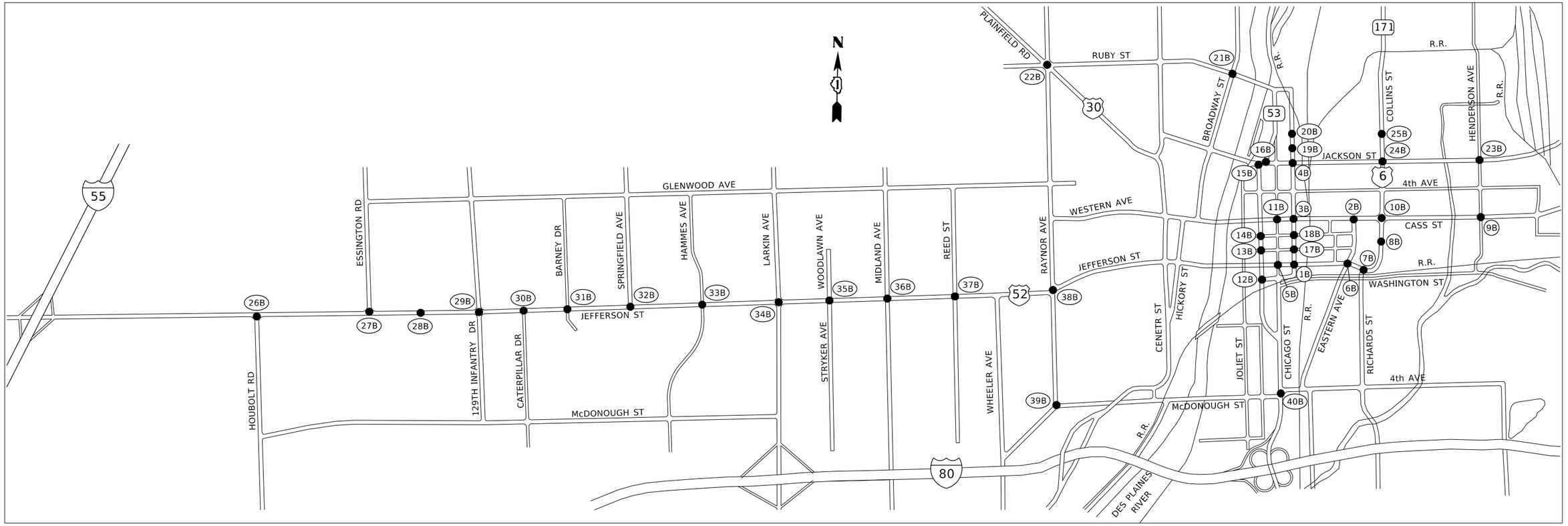

LOCATION NUMBER	TS NO.	INTERSECTION NAME
1B	22531	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)
2B	21780	US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE
3B	21803	US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)
4B	21802	IL RTE 53 NB (SCOTT ST) AT JACKSON ST
5B	22530	US RTE 30 EB (JEFFERSON ST) AT CHICAGO ST
6B	21782	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT EASTERN AVE
7B	22563	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT RICHARDS ST
8B	7613	US RTE 6 - US RTE 30 EB (COLLINS ST) AT HERKIMER DR
9B	22552	US RTE 30 (CASS ST) AT HENDERSON AVE
10B	21781	US RTE 6 - US RTE 30 (CASS ST) AT US RTE 6 - US RTE 30 (COLLINS ST)
11B	22536	US RTE 6 - US RTE 30 WB (CASS ST) AT CHICAGO ST
12B	22537	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT WASHINGTON ST
13B	22545	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT VAN BUREN ST
14B	22539	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT CLINTON ST
15B	22546	IL RTE 53 (OTTAWA ST) WEST AT IL RTE 53 (JACKSON ST)
16B	22546	IL RTE 53 (OTTAWA ST) EAST AT IL RTE 53 (JACKSON ST)
17B	22538	IL RTE 53 NB (SCOTT ST) AT VAN BUREN ST
18B	22540	IL RTE 53 NB (SCOTT ST) AT CLINTON ST
19B	21801	IL RTE 53 NB (SCOTT ST) AT CLAY ST
20B	21800	IL RTE 53 NB (SCOTT ST) AT OHIO ST

LOCATION NUMBER	TS NO.	INTERSECTION NAME
21B	7513	IL RTE 53 (RUBY ST) AT IL RTE 53 (BROADWAY ST)
22B	7507	US RTE 30 (PLAINFIELD RD) AT RAYNOR AVE AT RUBY ST/ BLACK ST
23B	22554	US RTE 6 (JACKSON ST) AT HENDERSON AVE
24B	22555	US RTE 6 - IL RTE 171 (COLLINS ST) AT US RTE 6 (JACKSON ST)
25B	22556	IL RTE 171 (COLLINS ST) AT OHIO ST
26B	22509	US RTE 52 (JEFFERSON ST) AT HOUBOLT RD
27B	22510	US RTE 52 (JEFFERSON ST) AT ESSINGTON RD
28B	22564	US RTE 52 (JEFFERSON ST) AT PARK DISTRICT ENTRANCE
29B	22511	US RTE 52 (JEFFERSON ST) AT 129TH INFANTRY DR
30B	22512	US RTE 52 (JEFFERSON ST) AT CATERPILLAR DR
31B	22513	US RTE 52 (JEFFERSON ST) AT BARNEY DR
32B	22514	US RTE 52 (JEFFERSON ST) AT SPRINGFIELD AVE
33B	22515	US RTE 52 (JEFFERSON ST) AT HAMMES AVE
34B	22516	US RTE 52 (JEFFERSON ST) AT IL RTE 7 (LARKIN AVE)
35B	22517	US RTE 52 (JEFFERSON ST) AT STRYKER AVE / WOODLAWN AVE
36B	22518	US RTE 52 (JEFFERSON ST) AT MIDLAND AVE
37B	22519	US RTE 52 (JEFFERSON ST) AT REED ST
38B	22520	US RTE 52 (JEFFERSON ST) AT US RTE 52 (RAYNOR AVE)
39B	21828	US RTE 52 (RAYNOR AVE) AT US RTE 52 (MCDONOUGH ST) / PARK AVE
40B	21825	US RTE 6 - US RTE 52 (MCDONOUGH ST)/ 4TH AVE AT IL RTE 53 - US RTE 52 - US RTE 6 (CHICAGO ST)

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	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	3
		CONTRACT NO. 62M72		
	ILLINOIS	FED. AID PROJECT		

LOCATION INDEX

	LOCATION NUMBER	TS NO.	INTERSECTION NAME
TRAFFIC SIGNAL MODERNIZATION			
	1B	22531	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)
	2B	21780	US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE
	3B	21803	US RTE 6 - US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)
	4B	21802	IL RTE 53 NB (SCOTT ST) AT JACKSON ST
LIGHTING			
	1B	22531	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT US RTE 6 - IL RTE 53 NB (SCOTT ST)
	2B	21780	US RTE 6 - US RTE 30 WB (CASS ST) AT EASTERN AVE
	4B	21802	IL RTE 53 NB (SCOTT ST) AT JACKSON ST
RETROREFLECTIVE BACKPLATES			
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	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
LOCATION INDEX

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	4
		CONTRACT NO. 62M72		
	ILLINOIS	FED. AID PROJECT		

				CONSTRUCTION CODE														
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET	
			LOCATION NUMBER	1B	2B	3B 4B	1B	2B	4B	5B,15B 16B 19B 27B 32B	6B, 7B, 9B, 11B, 12B 13B, 14B, 17B, 18B, 20B 21B, 23B, 25B, 26B, 28B 29B, 30B, 31B, 33B, 35B 36B, 37B, 39B	8B	10B 34B	22B	24B 38B 40B		1B, 2B 3B, 4B	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	TRAFFIC SIGNAL MODERNIZATION			LIGHTING			RETROREFLECTIVE BACKPLATES						INTER-CONNECT	EVP AND LED SIGNS	
				0021														
20200200	ROCK EXCAVATION	CU YD	19	4	5	10												
51604000	DRILLED SHAFT IN ROCK	CU YD	23.5	7	3.5	13												
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	71	16	16	39												
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	1	1	2												
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	0.25	0.25	0.50												
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	0.25	0.25	0.50												
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	4	1	1	2												
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	3	3	6												
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.50												
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.25	0.25	0.50												
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.25	0.25	0.50												
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.25	0.25	0.50												

* SPECIALTY ITEM

REV-SEP

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 1 OF 7)

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	5
		CONTRACT NO. 62M72		
		ILLINOIS	FED. AID PROJECT	

			CONSTRUCTION CODE															
			90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET	
		LOCATION NUMBER	1B	2B	3B 4B	1B	2B	4B	5B,15B 16B 19B 27B 32B	6B, 7B, 9B, 11B, 12B 13B, 14B, 17B, 18B, 20B 21B, 23B, 25B, 26B, 28B 29B, 30B, 31B, 33B, 35B 36B, 37B, 39B	8B	10B 34B	22B	24B 38B 40B		1B, 2B 3B, 4B	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	TRAFFIC SIGNAL MODERNIZATION			LIGHTING			RETROREFLECTIVE BACKPLATES						INTER-CONNECT	EVP AND LED SIGNS	
				0021														
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.25	0.25	0.50												
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1,664	129	221	781										533		
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	161	45	36	80												
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,113	245	291	577												
81400100	HANDHOLE	EACH	8	2	3	3												
81400300	DOUBLE HANDHOLE	EACH	6	1	1	4												
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	965				200	547	218									
81800230	AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	330				195		135									
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	10		1	1										8		
86400100	TRANSCEIVER - FIBER OPTIC	EACH	4	1	1	2												
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	8,200													8,200		
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,903	970	1,018	1,915												

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	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 2 OF 7)

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	6
		CONTRACT NO. 62M72		
		ILLINOIS	FED. AID PROJECT	

				CONSTRUCTION CODE															
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET	
			LOCATION NUMBER	1B	2B	3B 4B	1B	2B	4B	5B,15B 16B 19B 27B 32B	6B, 7B, 9B, 11B, 12B 13B, 14B, 17B, 18B, 20B 21B, 23B, 25B, 26B, 28B 29B, 30B, 31B, 33B, 35B 36B, 37B, 39B	8B	10B 34B	22B	24B 38B 40B		1B, 2B 3B, 4B	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	TRAFFIC SIGNAL MODERNIZATION			LIGHTING			RETROREFLECTIVE BACKPLATES						INTER-CONNECT	EVP AND LED SIGNS	
				0021														
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	5,322	1,250	1,290	2,782												
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,923	870	780	2,273												
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	330			330												
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	715	120	199	396												
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	2,482	540	735	1,207												
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	7	2	2	3												
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2			2												
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1	1														
87700260	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	2			2												
87702860	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1		1													
87702870	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	2		1	1												
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1	1														

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 3 OF 7)

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	7
		CONTRACT NO. 62M72		
	ILLINOIS	FED. AID PROJECT		

				CONSTRUCTION CODE															
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET	
			LOCATION NUMBER	1B	2B	3B 4B	1B	2B	4B	5B,15B 16B 19B 27B 32B	6B, 7B, 9B, 11B, 12B 13B, 14B, 17B, 18B, 20B 21B, 23B, 25B, 26B, 28B 29B, 30B, 31B, 33B, 35B 36B, 37B, 39B	8B	10B 34B	22B	24B 38B 40B		1B, 2B 3B, 4B	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	TRAFFIC SIGNAL MODERNIZATION			LIGHTING			RETROREFLECTIVE BACKPLATES						INTER-CONNECT	EVP AND LED SIGNS	
				0021														
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	44	12	12	20												
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	16	4	4	8												
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	77	27	20	30												
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	26			26												
87900200	DRILL EXISTING HANDHOLE	EACH	20	3	3	9										5		
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	20	5	4	11												
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8	2	2	4												
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1			1												
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1			1												
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	32	8	8	16												
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	243	5	4	12				28	135	8	16	15	20			
88700200	LIGHT DETECTOR	EACH	8														8	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 4 OF 7)

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	8
		CONTRACT NO. 62M72		
	ILLINOIS	FED. AID PROJECT		

				CONSTRUCTION CODE														
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET	
			LOCATION NUMBER	1B	2B	3B 4B	1B	2B	4B	5B,15B 16B 19B 27B 32B	6B, 7B, 9B, 11B, 12B 13B, 14B, 17B, 18B, 20B 21B, 23B, 25B, 26B, 28B 29B, 30B, 31B, 33B, 35B 36B, 37B, 39B	8B	10B 34B	22B	24B 38B 40B		1B, 2B 3B, 4B	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	TRAFFIC SIGNAL MODERNIZATION			LIGHTING			RETROREFLECTIVE BACKPLATES						INTER-CONNECT	EVP AND LED SIGNS	
				0021														
88700300	LIGHT DETECTOR AMPLIFIER	EACH	4														4	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	32	8	8	16												
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1		1												
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	17,206													17,206		
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	40	1	1	2				6	23	1	2	1	3			
89502380	REMOVE EXISTING HANDHOLE	EACH	15		7	8												
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	3	1	1	1												
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	22	6	5	11												
X0322951	CABLE SPLICE SPECIAL	EACH	3				1	1	1									
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1,212														1,212	
X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	9														9	
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	2	1	1													

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	PLOT DATE = 6/22/2020	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 5 OF 7)

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	9
		CONTRACT NO. 62M72		
	ILLINOIS	FED. AID PROJECT		

			CONSTRUCTION CODE															
			90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET	
		LOCATION NUMBER	1B	2B	3B 4B	1B	2B	4B	5B,15B 16B 19B 27B 32B	6B, 7B, 9B, 11B, 12B 13B, 14B, 17B, 18B, 20B 21B, 23B, 25B, 26B, 28B 29B, 30B, 31B, 33B, 35B 36B, 37B, 39B	8B	10B 34B	22B	24B 38B 40B		1B, 2B 3B, 4B	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	TRAFFIC SIGNAL MODERNIZATION			LIGHTING			RETROREFLECTIVE BACKPLATES						INTER-CONNECT	EVP AND LED SIGNS	
				0021														
X1400108	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	2			2												
X1400150	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	4	1	1	2												
X1400238	LUMINAIRE, LED, SPECIAL	EACH	6				2	2	2									
X1400360	DIRECTIONAL BORING THROUGH ROCK	FOOT	2,355	335	440	1,150										430		
X1400367	PEDESTRIAN SIGNAL POST, 10 FT	EACH	10	3	3	4												
X1400388	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	9	2	2	5												
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	3				1	1	1									
X8620200	UNINTERRUPTABLE POWER SUPPLY,SPECIAL	EACH	4	1	1	2												
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	8,200													8,200		
X8772115	TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	2				1		1									
X8780010	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	40	12	12	16												
X8950100	RELOCATE EXISTING MASTER CONTROLLER	EACH	2			2												

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USER NAME = plascencia1 | PLOT SCALE = 100.0000 ' / in. | PLOT DATE = 6/22/2020

DESIGNED - IP | DRAWN - IP | CHECKED - LP | DATE - 6/1/2020

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 6 OF 7)

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	10
		CONTRACT NO. 62M72		
	ILLINOIS	FED. AID PROJECT		

				CONSTRUCTION CODE															
				90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 6.7% STATE 3.3% JOLIET	90% FEDERAL 5% STATE 5% JOLIET	90% FEDERAL 10% JOLIET	90% FEDERAL 10% STATE	90% FEDERAL 3.3% STATE 6.7% JOLIET	90% FEDERAL 7.5% STATE 2.5% JOLIET	90% FEDERAL 10% STATE	100% JOLIET	
			LOCATION NUMBER	1B	2B	3B 4B	1B	2B	4B	5B,15B 16B 19B 27B 32B	6B, 7B, 9B, 11B, 12B 13B, 14B, 17B, 18B, 20B 21B, 23B, 25B, 26B, 28B 29B, 30B, 31B, 33B, 35B 36B, 37B, 39B	8B	10B 34B	22B	24B 38B 40B		1B, 2B 3B, 4B	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	TRAFFIC SIGNAL MODERNIZATION			LIGHTING			RETROREFLECTIVE BACKPLATES						INTER-CONNECT	EVP AND LED SIGNS	
				0021														
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	154.2	51.4	25.7	77.1												
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	6				2	2	2									
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12				4	4	4									
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	4													4		
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	1		1												
X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	1,150														1,150	
Ø Z0076600	TRAINEES	HOUR	500	500														
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500														
																		Ø 0042
																		REV-SEP

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
(SHEET 7 OF 7)

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	11
		CONTRACT NO. 62M72		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX		
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET	RR	RR
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	P	P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	P RB	P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

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Default	PLOT DATE = 6/10/2016	DATE - 6/8/2016	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 1 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	12
	TS-05	CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

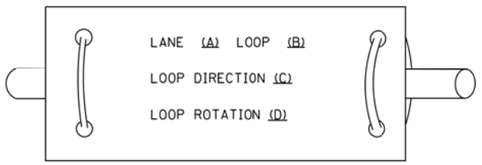
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

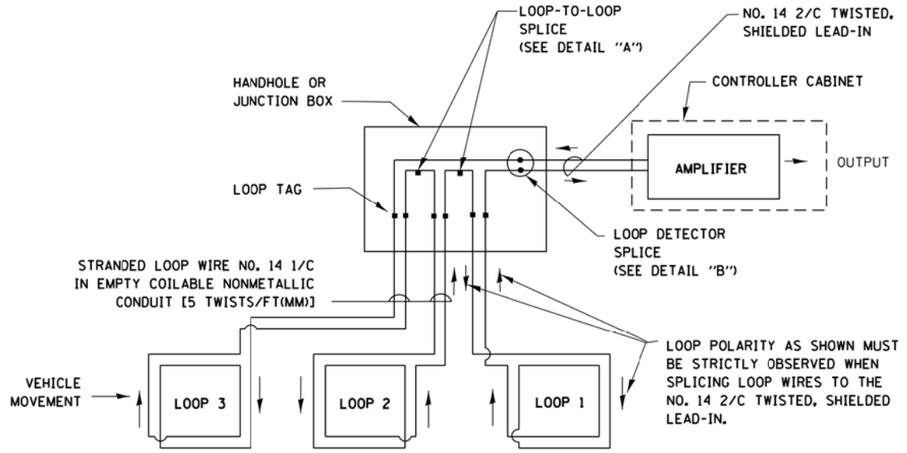


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

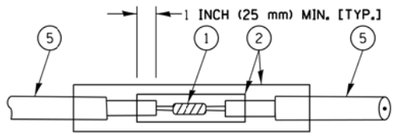
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

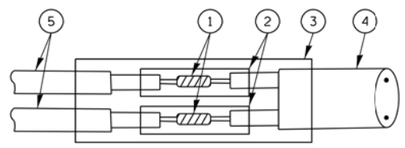


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

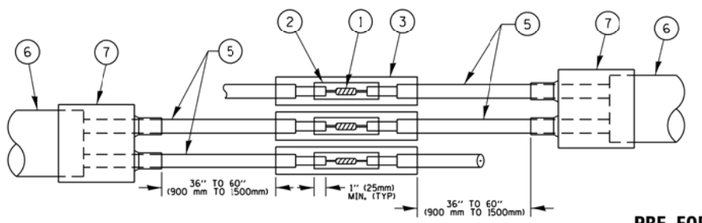


DETAIL "A"
LOOP-TO-LOOP SPLICE



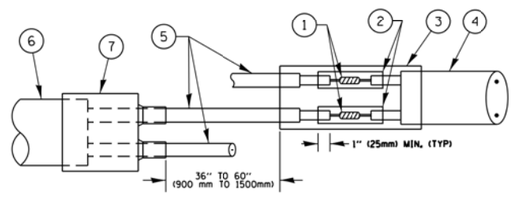
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

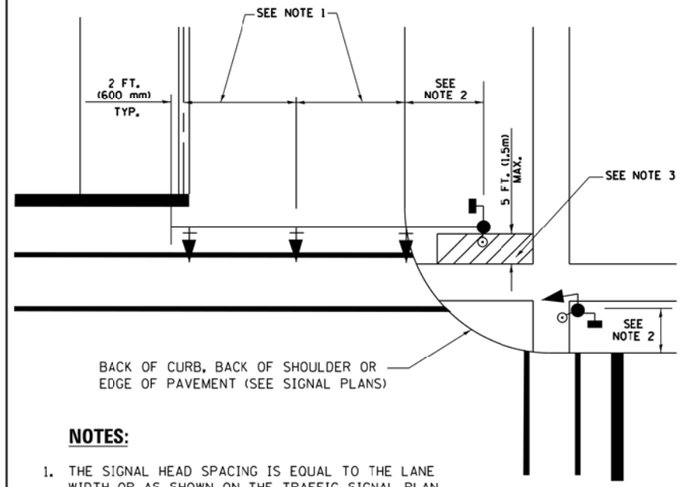
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	13
	TS-05	CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

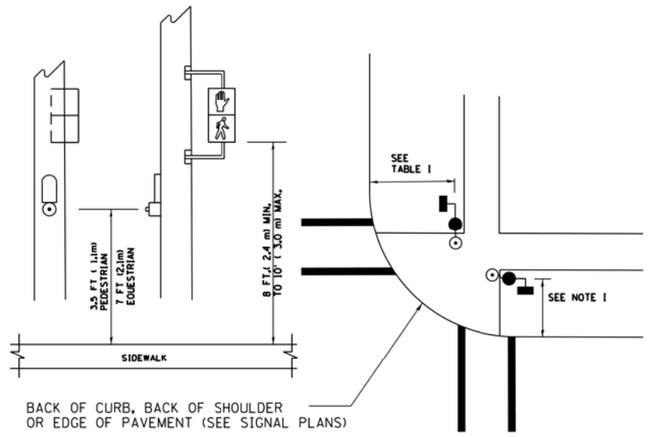
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

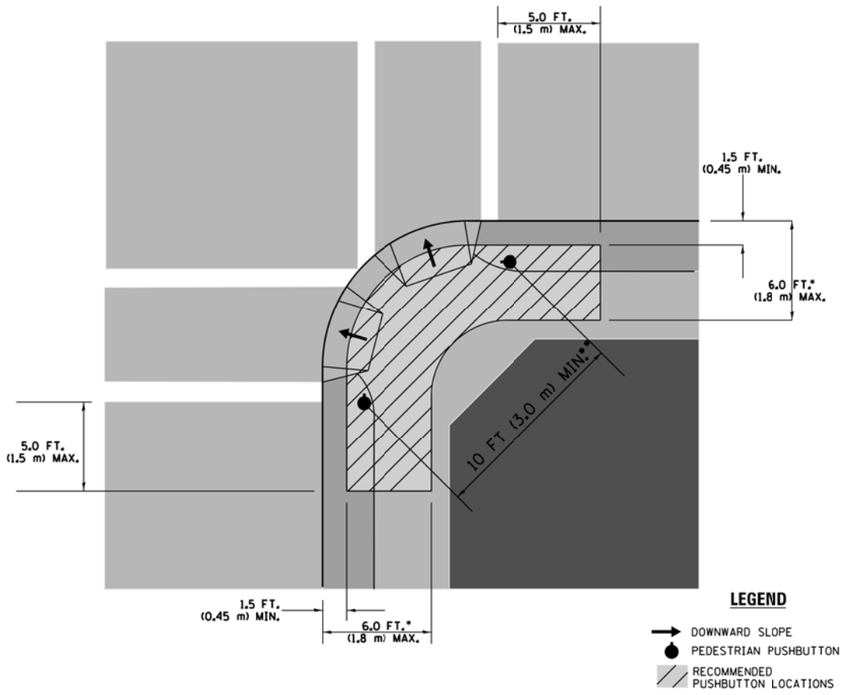
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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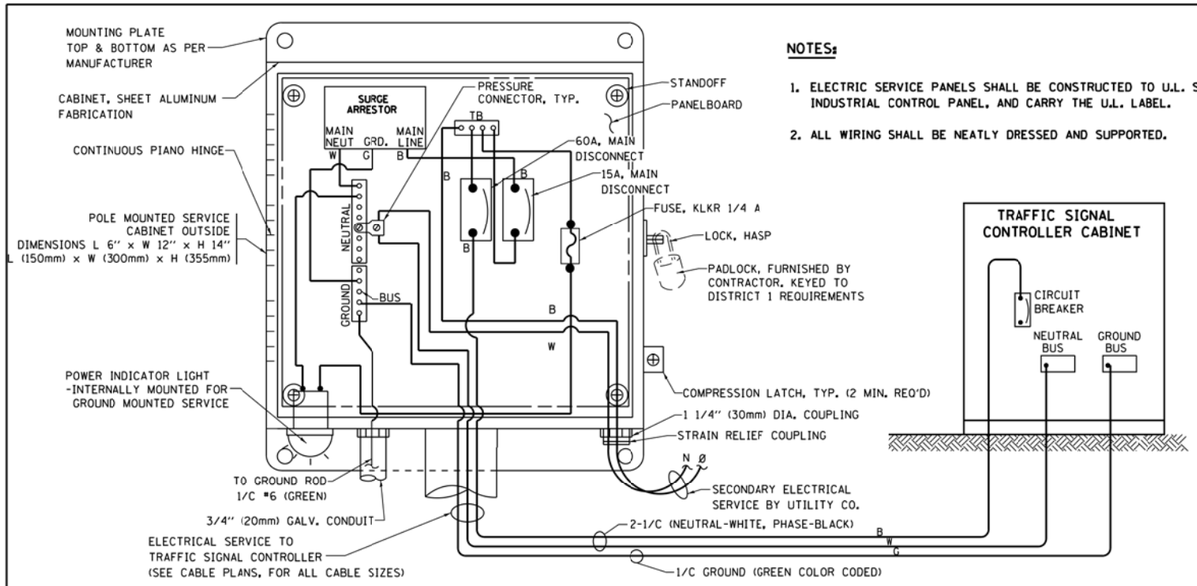
	TS-05	CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



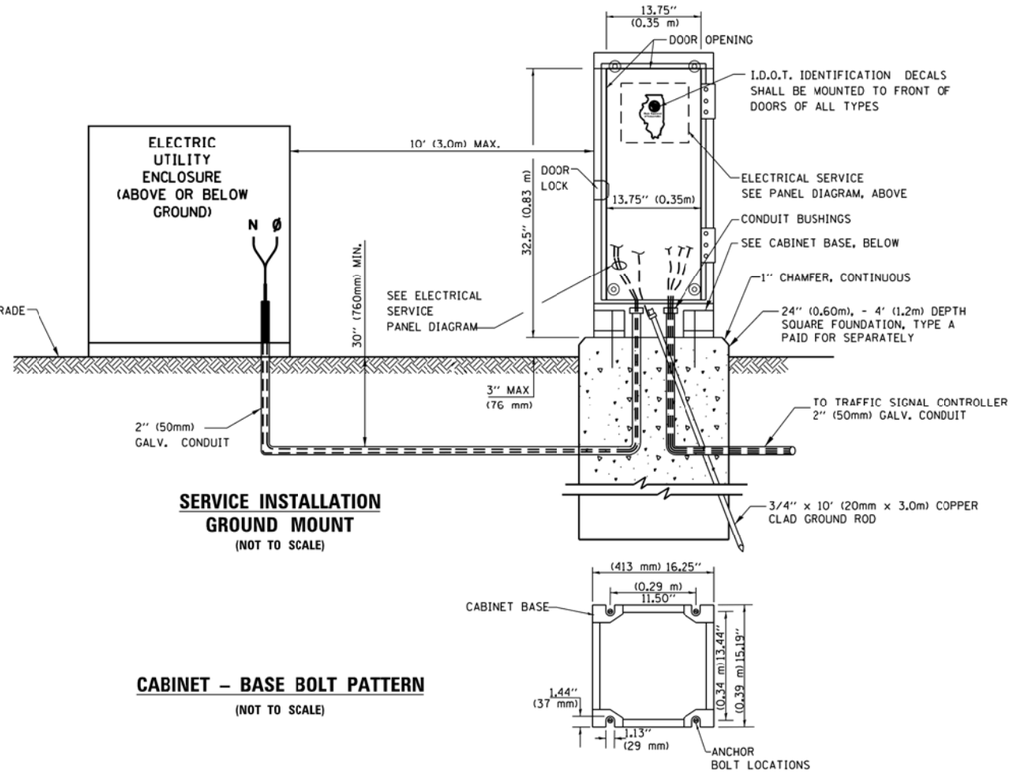
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

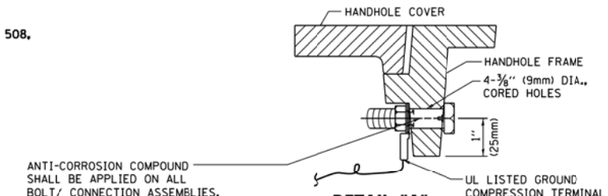


SERVICE INSTALLATION GROUND MOUNT

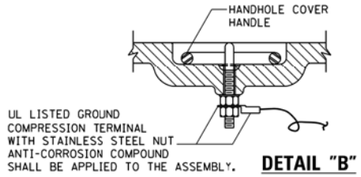
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



DETAIL "A"



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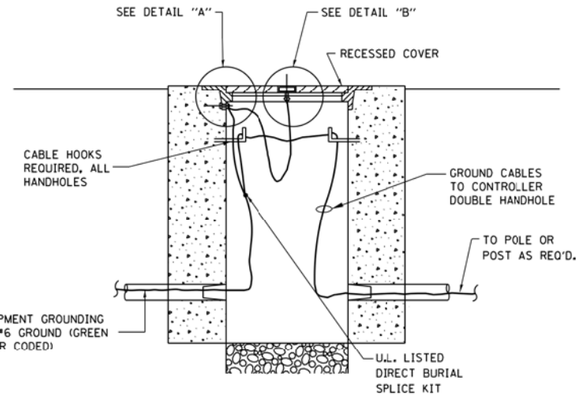
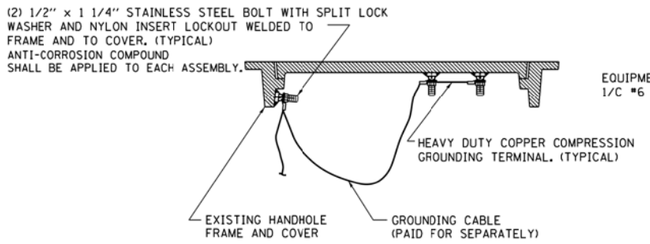


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



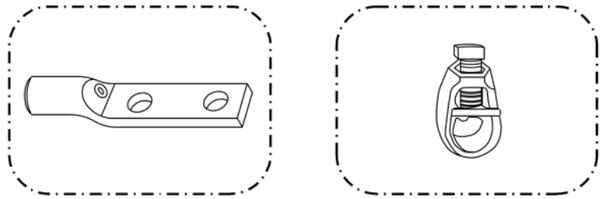
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

NOTES:

GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

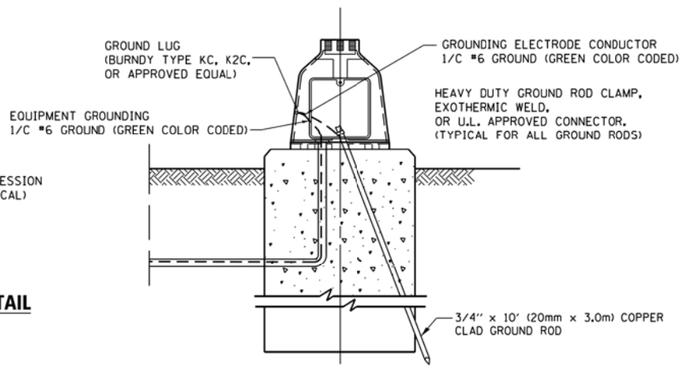


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE / POST-GROUNDING DETAIL

(NOT TO SCALE)

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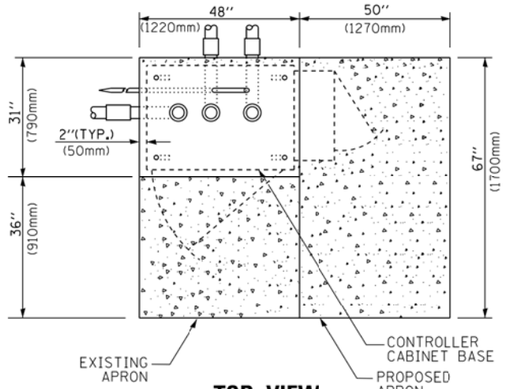
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

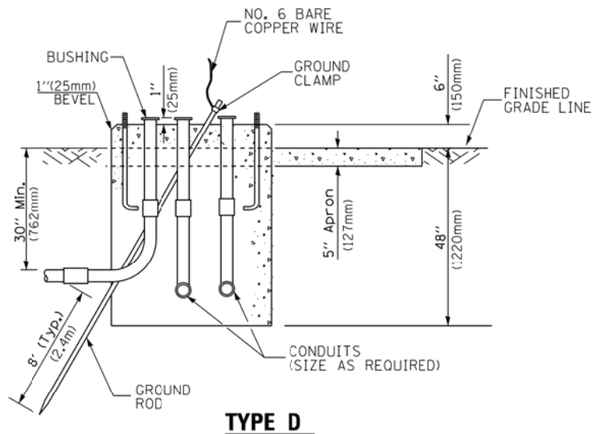
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 4 OF 7 SHEETS | STA. | TO STA.

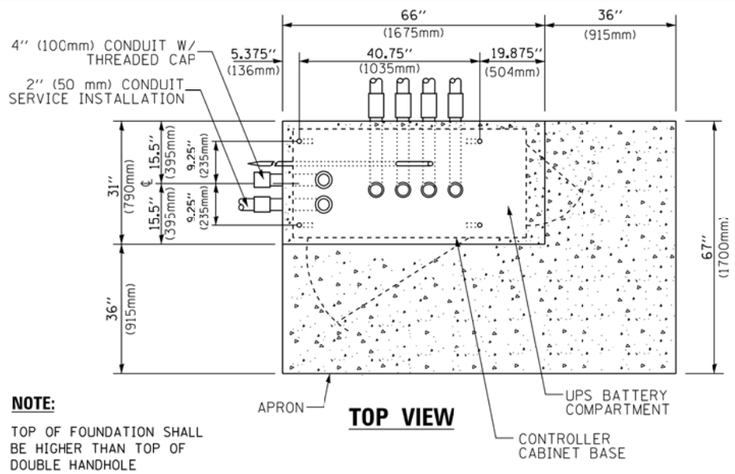
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	15
	TS-05	CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



TOP VIEW



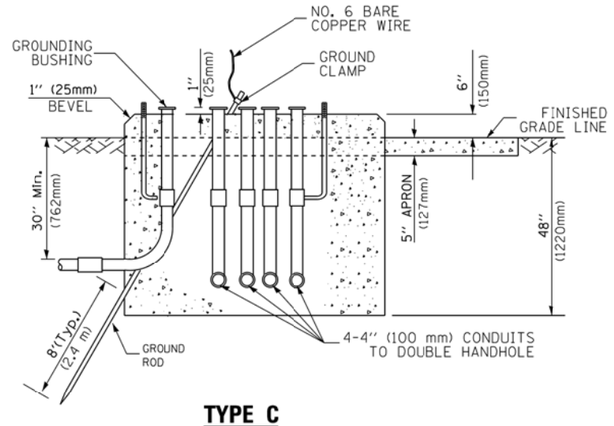
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



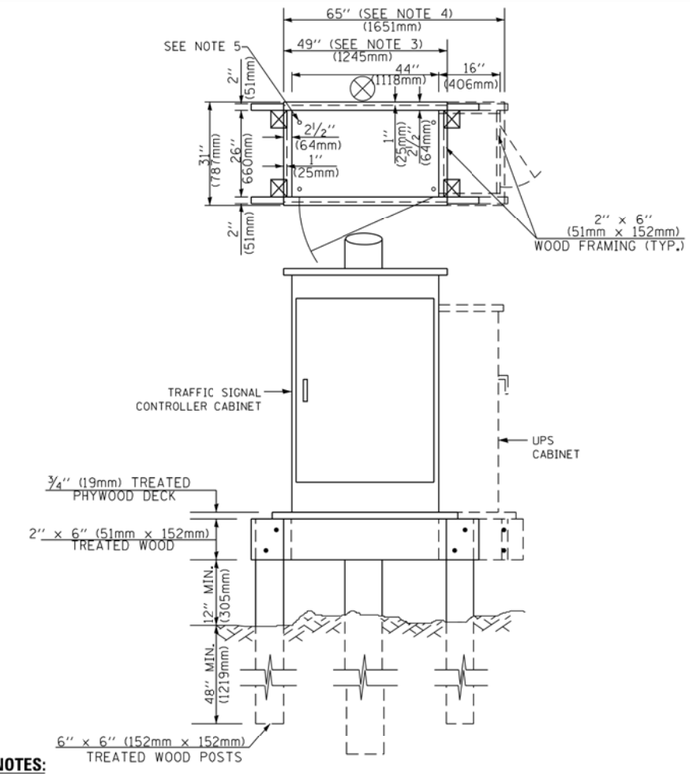
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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		DRAWN -	REVISED -
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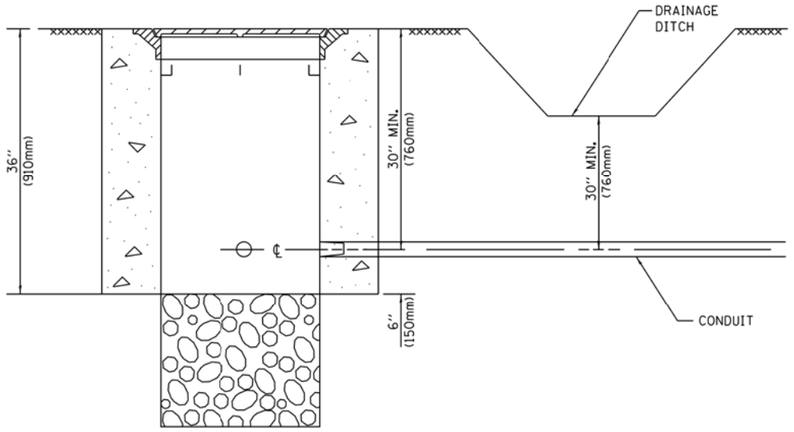
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	16
	TS-05	CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

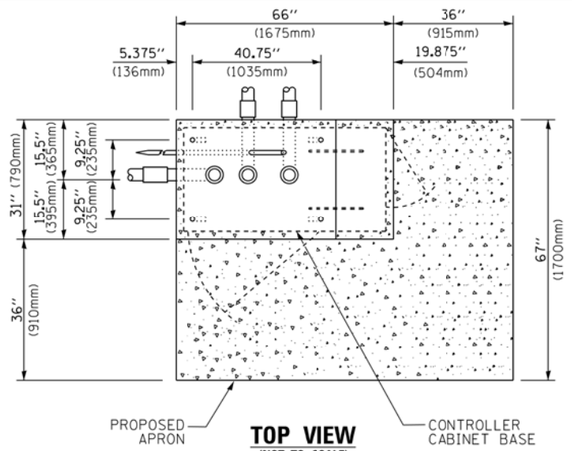


NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

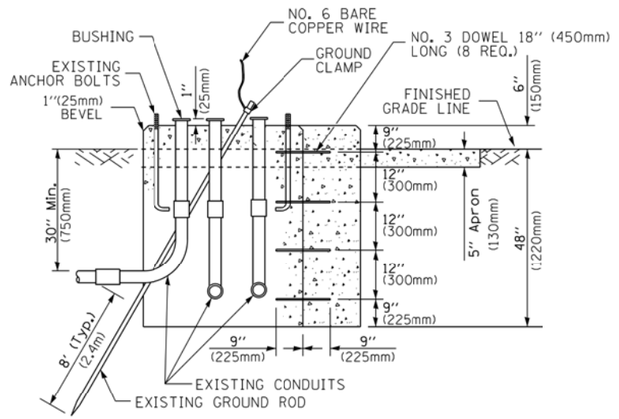
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



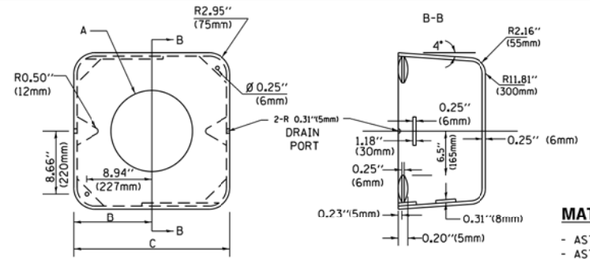
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

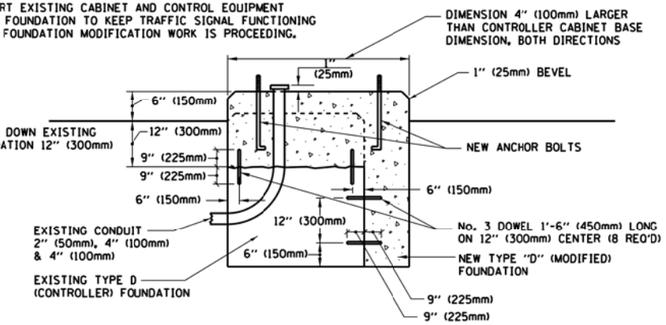
SHROUD

NOTES:

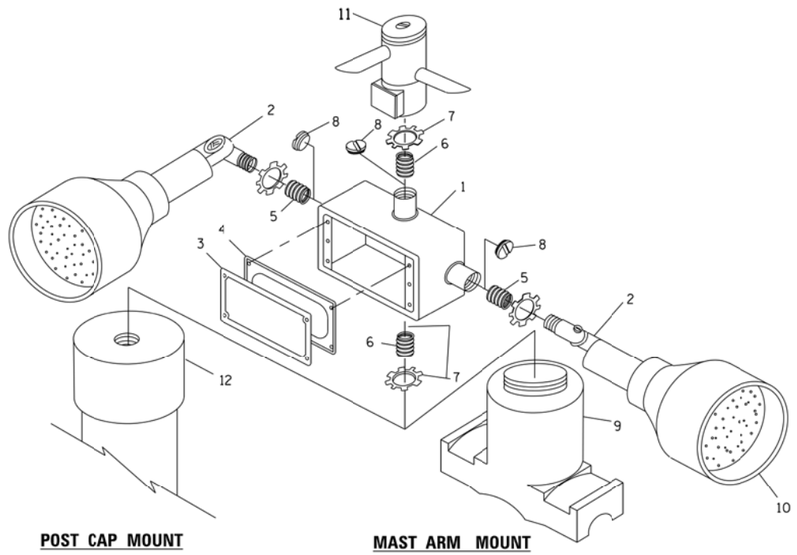
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



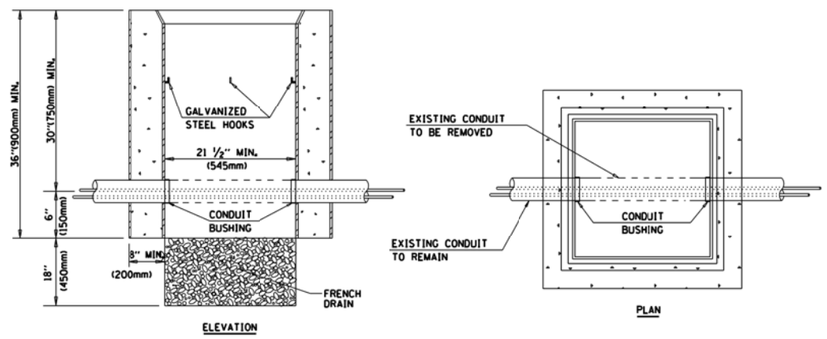
POST CAP MOUNT **MAST ARM MOUNT**

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEN NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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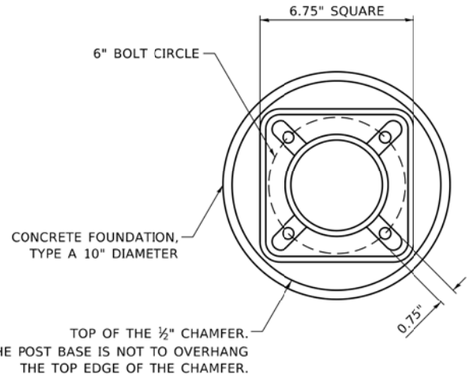
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 6 OF 7 SHEETS | STA. | TO STA.

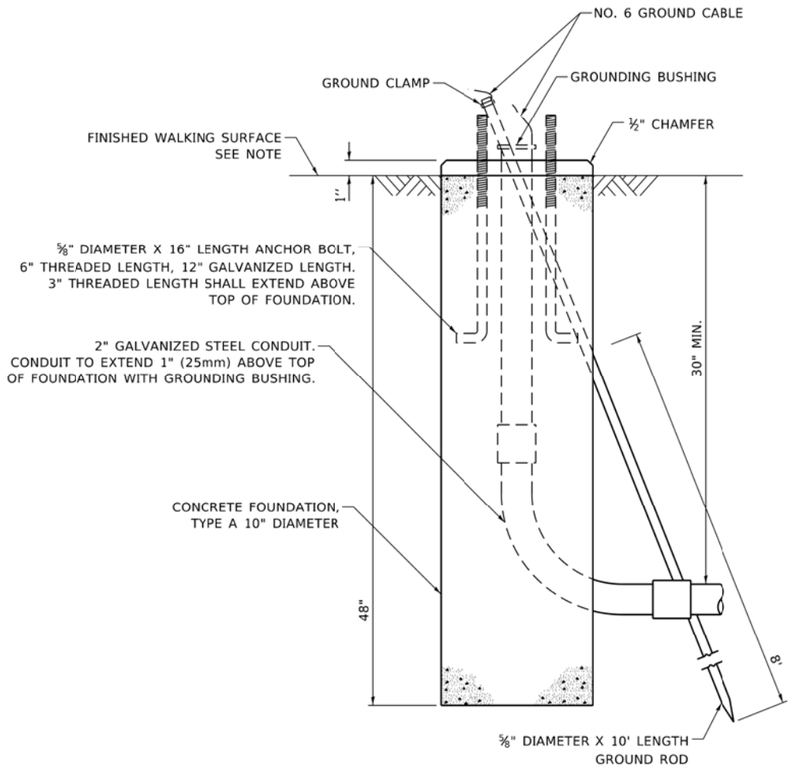
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	17
	TS-05	CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



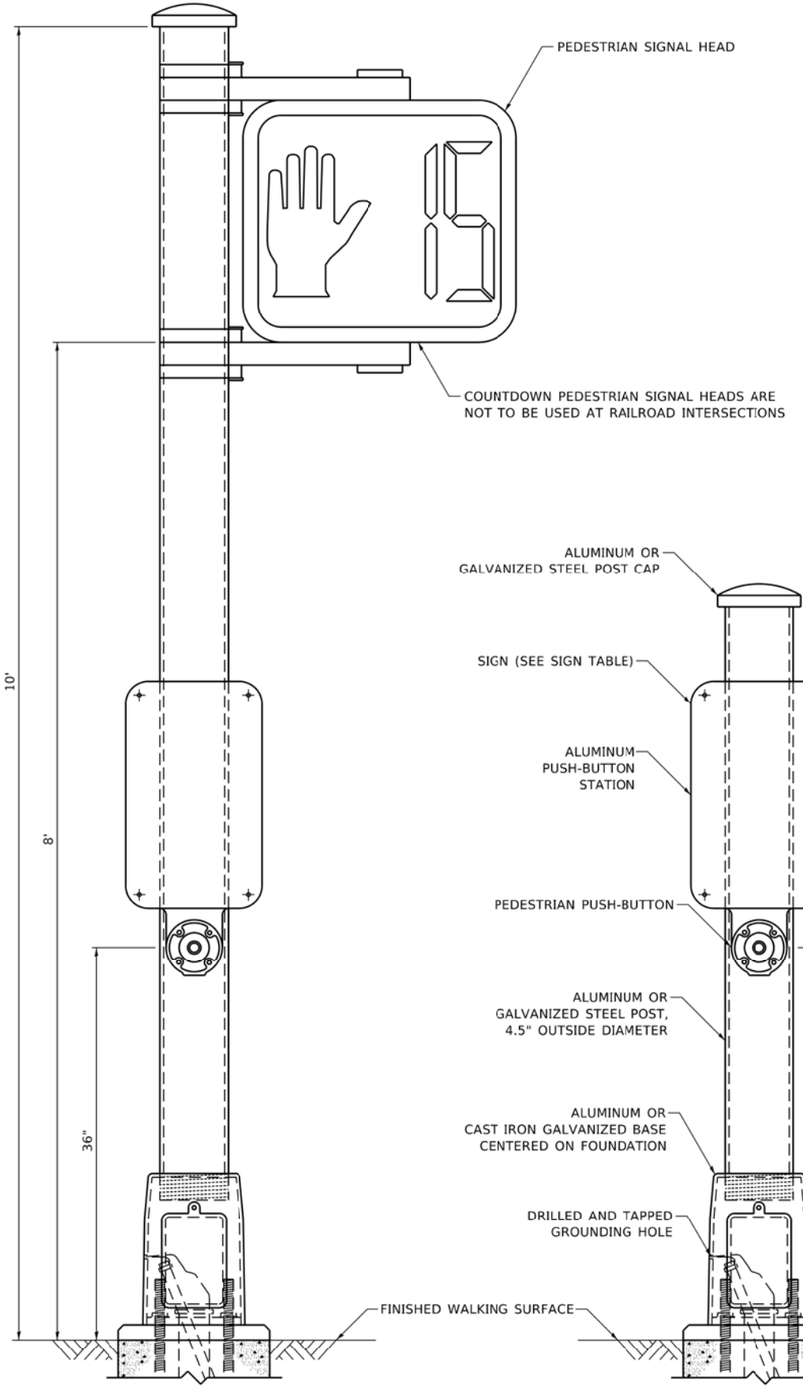
BOLT PATTERN

NOTE:

1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



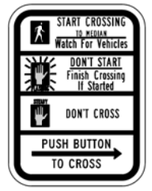
CONCRETE FOUNDATION, TYPE A 10–INCH DIAMETER



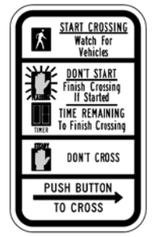
PEDESTRIAN SIGNAL POST, 10 FT.

PEDESTRIAN SIGNAL POST, 5 FT.

R10-3b



R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 15"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

MODEL: Default
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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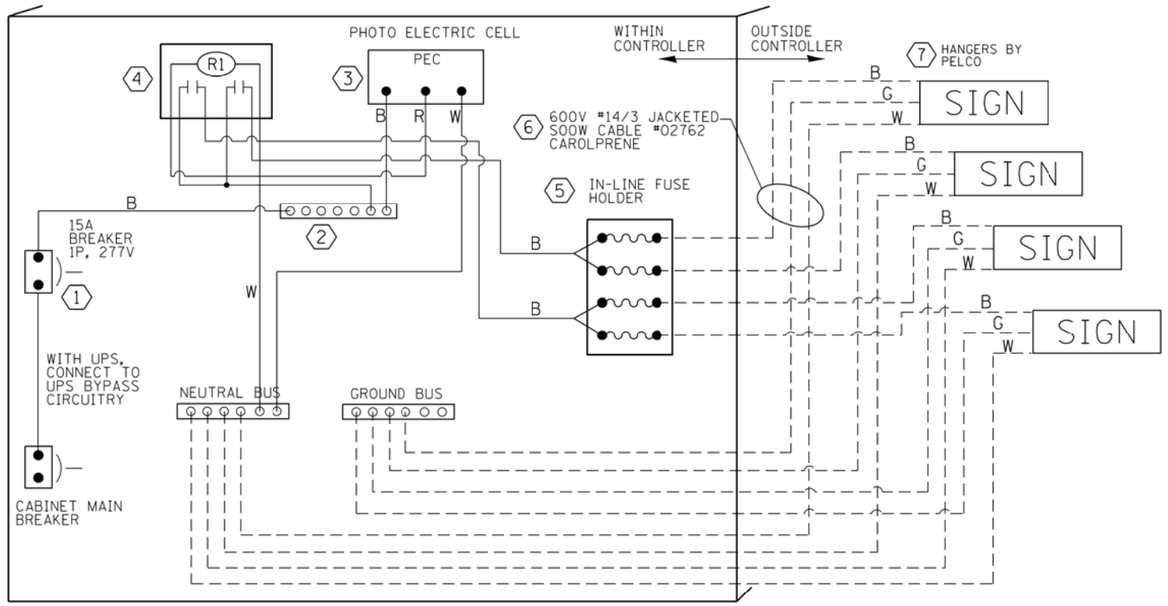
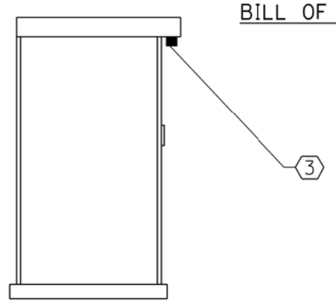
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



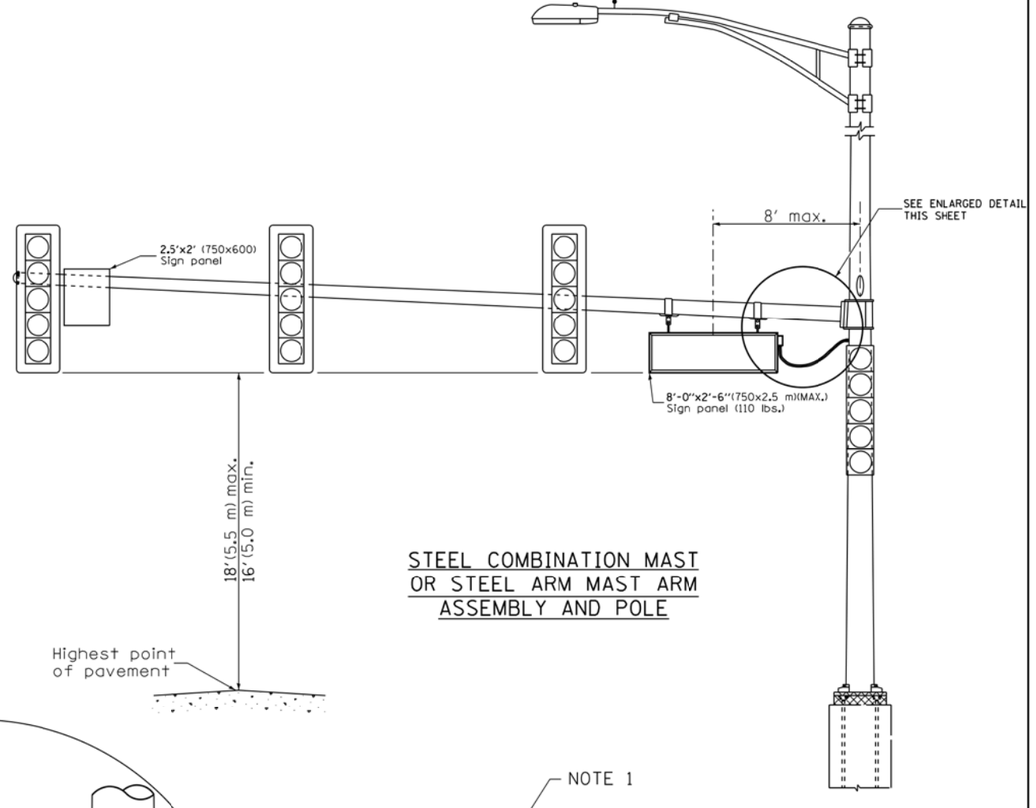
LED SIGN WIRING DETAIL

DESCRIPTION	MANUFACTURER	MODEL	NOTES
1 CIRCUIT BREAKER		15 AMPERE	Molded case, Thermal Mag. min. R.I. of 14K R.M.S. symmetrical ampere at 277V.
2 TERMINAL BLOCK	MARATHON	1502 DJSV	
3 PHOTO ELECTRIC CONTROL	FISHER PIERCE	B124-1.5-07762	
4 CONTROL RELAY	SQUARE D	8501X020V02	BOLT ON W/SCREW TERMINAL
5 INLINE FUSE HOLDER WITH 5 AMP FUSE	BUSSMAN	S-8000 BK/S-8-3-4-R	
6 ELECTRIC CABLE, NO. 14, 3/C (BLACK, WHITE, GREEN)	CAROLPRENE/SOOW	02762	
7 SIGN MOUNTING HARDWARE	PELCO	SE-5015	S.S. HARDWARE

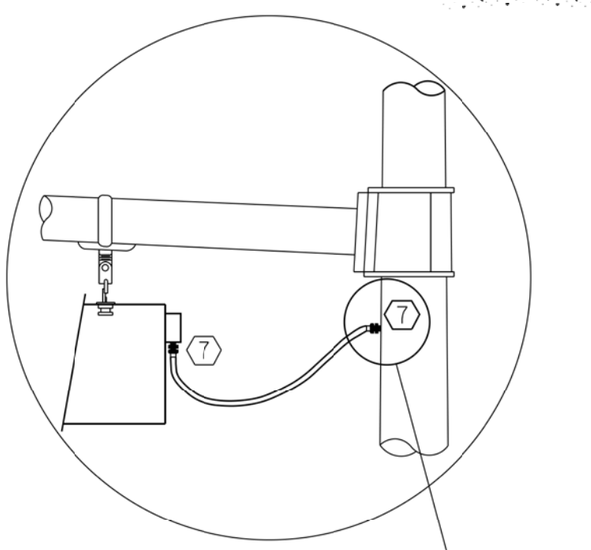
BILL OF MATERIALS



CONTROLLER CABINET
SIDE VIEW



STEEL COMBINATION MAST OR STEEL ARM MAST ARM ASSEMBLY AND POLE



L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL

L.E.D. SIGN ENLARGED CABLE CONNECTOR DETAIL

LED ILLUMINATED SIGN PANEL

8'0 x 2'6" (750 mm x 2.5 mm)(MAX)
C or D FONT

NOTES:

1. SIGNS SHALL BE DUAL SIDED. FRONT AND BACK OF SIGN WILL BE THE SAME.
2. SIGNS SHALL NOT BE ENERGIZED WHEN TRAFFIC SIGNALS ARE POWERED BY THE UPS. THE SIGNS SHALL BE CONNECTED TO THE UPS BYPASS CIRCUITRY.
3. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
   R = RED BL = BLUE W = WHITE
   B = BLACK Y = YELLOW G = GREEN
4. ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
5. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

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	DRAWN - GR	REVISED -	
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PLOT DATE = 4/16/2019	DATE - 04-18-2019	REVISED -	

LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	19
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

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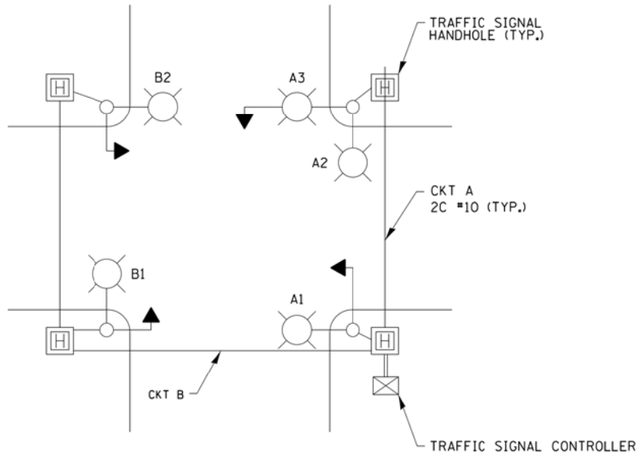
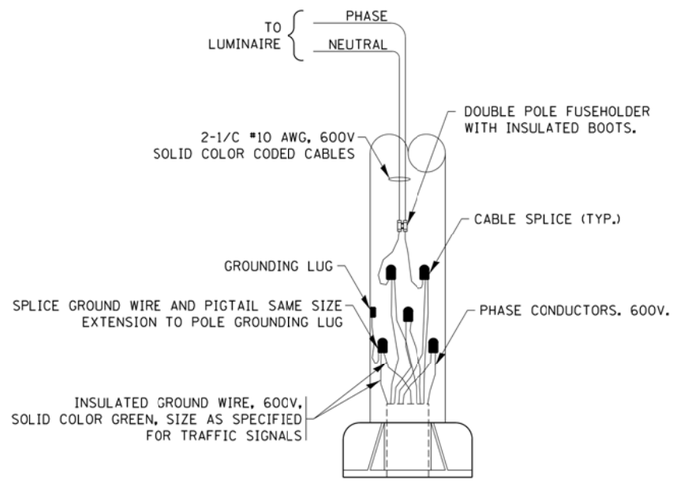


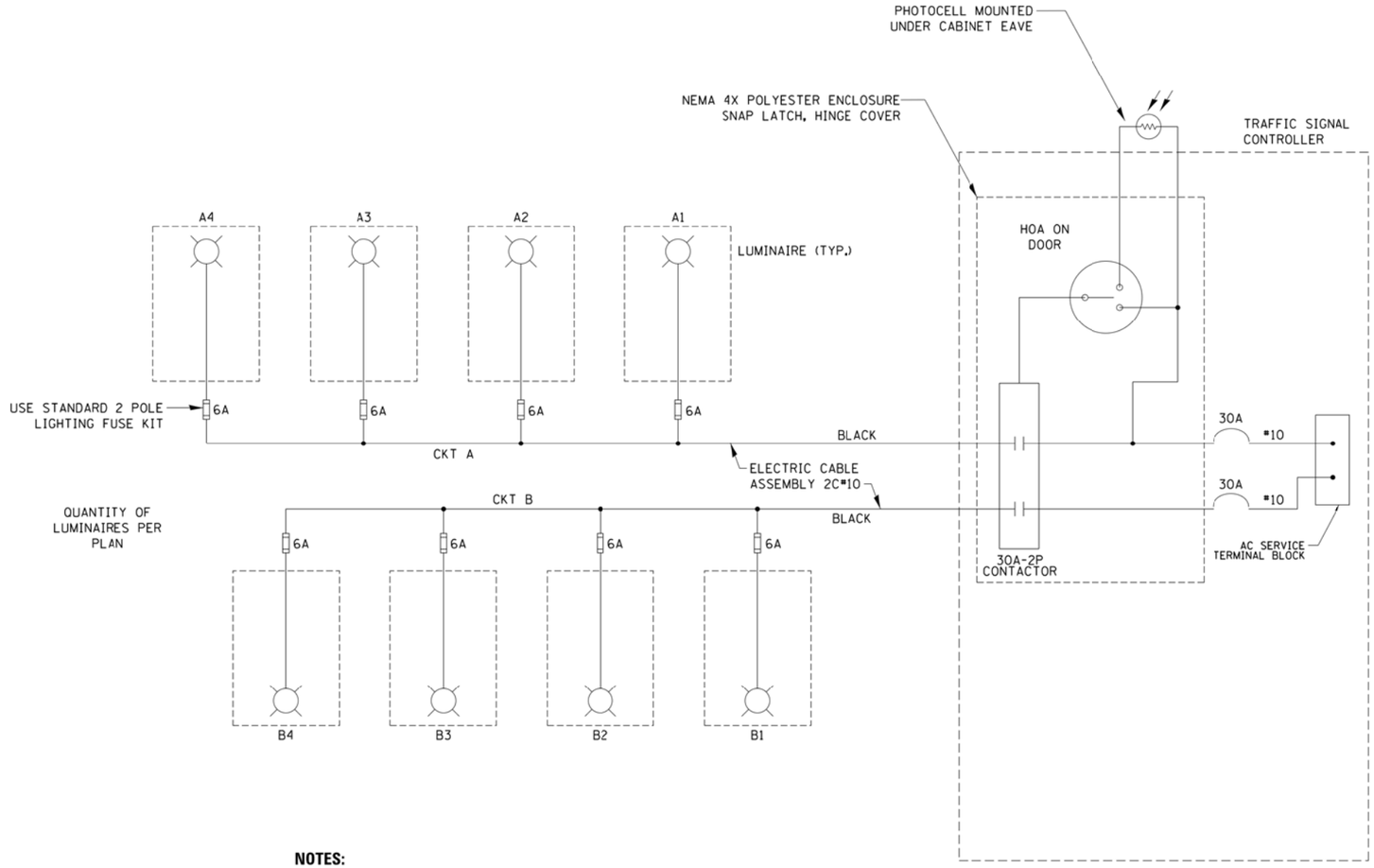
TYPICAL LIGHTING CIRCUIT

(NOT TO SCALE)



COMBINATION POLE WIRING DETAIL

(NOT TO SCALE)



NOTES:

1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.
8. LIGHTING CONNECTED TO UPS BYPASS CIRCUIT.
9. COMBINATION LIGHTING MUST BE INSTALLED PRIOR TO SIGNAL TURN ON.
10. LUMINAIRE VOLTAGE SHALL BE 120V

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		DRAWN -	REVISED - 10/13/2015			VAR	2020-196-TS&I	WILL	65	20
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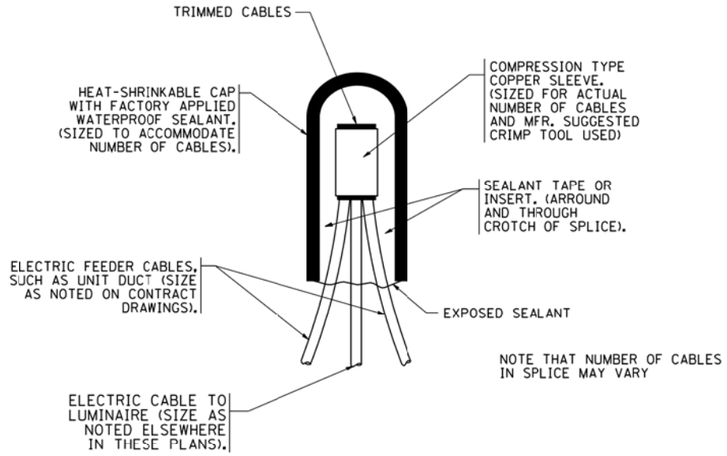
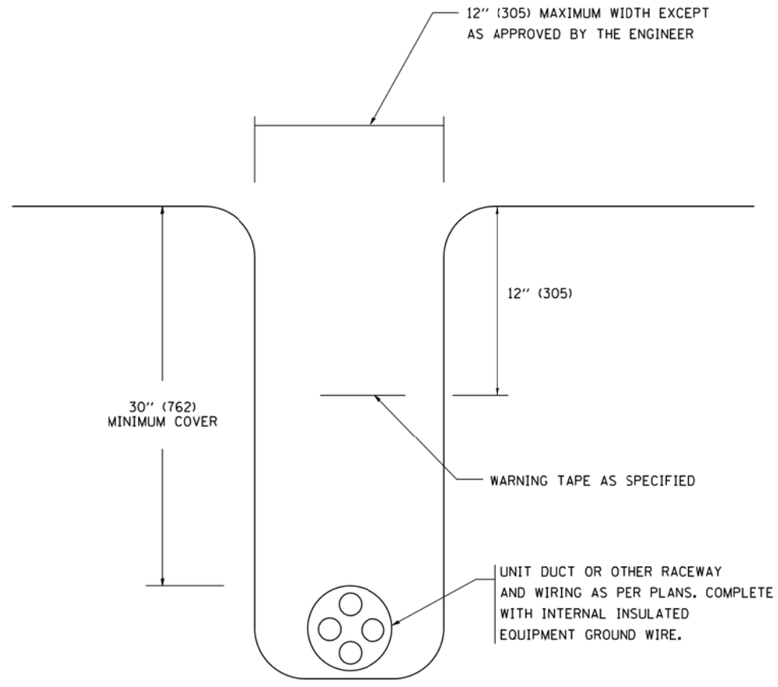


TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

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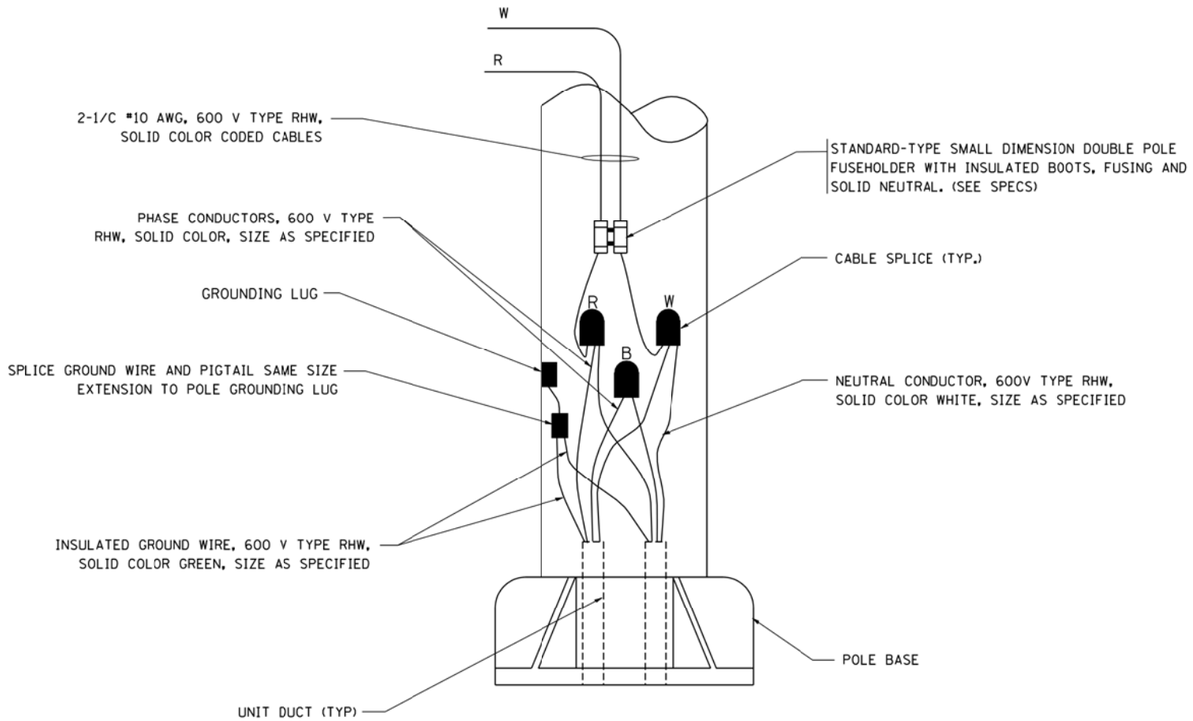

POLE WIRING DETAIL

N.T.S.

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		DRAWN -	REVISED -					VAR	2020-196-TS&I	WILL	65	21
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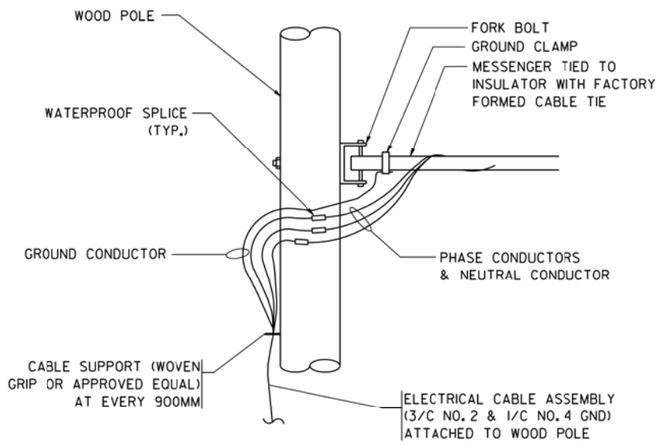
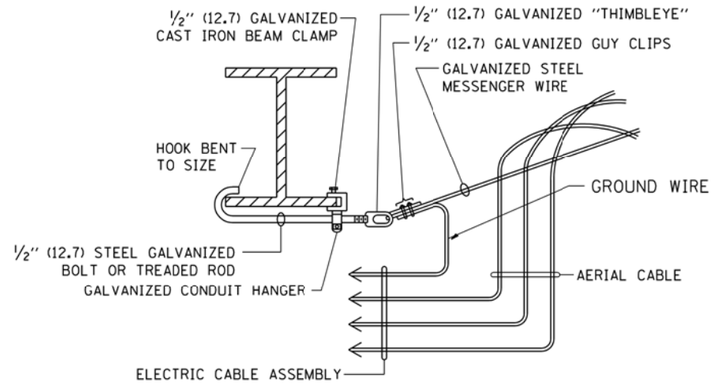


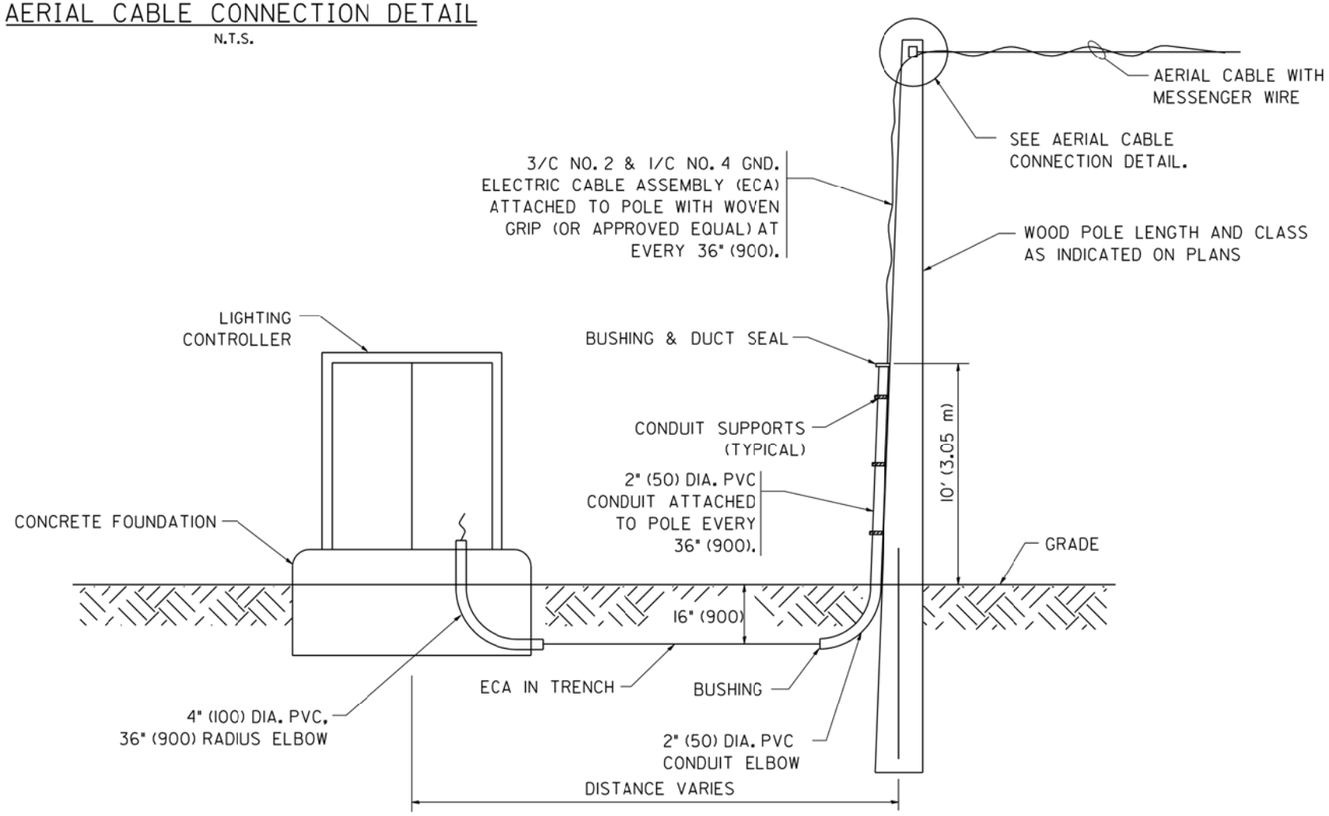
AERIAL CABLE CONNECTION DETAIL

N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE

NOT TO SCALE



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

N.T.S.

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

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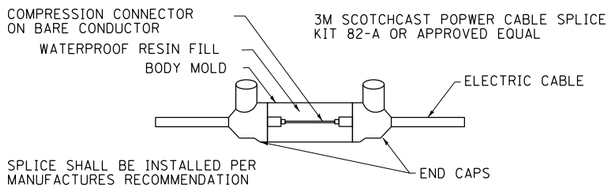
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

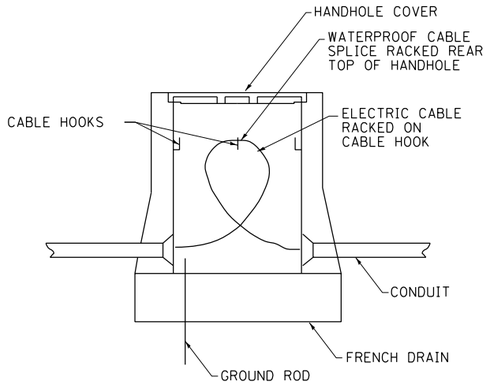
TEMPORARY AERIAL CABLE INSTALLATION

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	22
	BE-801	CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SPLICE



HANDHOLE SPLICE DETAIL

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\01-6-4-splice detail.22x34.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.:773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOLIET STREET LIGHTING
SPLICE DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	23
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

CONSTRUCTION NOTE:

MAINTENANCE TRANSFERS OF THESE INTERSECTIONS WILL NOT BE REQUIRED BUT THERE WILL BE AN INSPECTION BETWEEN THE CONTRACTOR AND THE CITY OF JOLIET BEFORE AND AFTER THE TRAFFIC SIGNAL WORK IS COMPLETE.

RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES – SCHEDULE OF QUANTITIES

LOCATION NO -	5B	6B	7B	8B	9B	10B	11B	12B	13B	14B	15B	16B	17B	18B	19B	20B	21B	22B	23B	24B	25B	26B	27B	28B	29B	30B	31B	32B	33B	34B	35B	36B	37B	38B	39B	40B
	TS 22530	TS 21782	TS 22563	TS 7613	TS 22552	TS 21781	TS 22536	TS 22537	TS 22545	TS 22539	TS 22546	TS 22546	TS 22538	TS 22540	TS 21801	TS 21800	TS 7513	TS 7507	TS 22554	TS 22555	TS 22556	TS 22509	TS 22510	TS 22564	TS 22511	TS 22512	TS 22513	TS 22514	TS 22515	TS 22516	TS 22517	TS 22518	TS 22519	TS 22520	TS 21828	TS 21825
ITEM DESCRIPTION / TOTAL	US RTE 30 EB (JEFFERSON ST) AT CHICAGO ST	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT EASTERN AVE	US RTE 6 - US RTE 30 EB (JEFFERSON ST) AT RICHARDS ST	US RTE 6 - US RTE 30 EB (COLLINS ST) AT HERKIMER DR	US RTE 30 (CASS ST) AT HENDERSON AVE	US RTE 6 - US RTE 30 (CASS ST) AT US RTE 6 - US RTE 30 (COLLINS ST)	US RTE 6 - US RTE 30 WB (CASS ST) AT CHICAGO ST	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT WASHINGTON ST	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT VAN BUREN ST	US RTE 6 - IL RTE 53 SB (OTTAWA ST) AT CLINTON ST	IL RTE 53 (OTTAWA ST) WEST AT IL RTE 53 (JACKSON ST)	IL RTE 53 (OTTAWA ST) EAST AT IL RTE 53 (JACKSON ST)	IL RTE 53 NB (SCOTT ST) AT VAN BUREN ST	IL RTE 53 NB (SCOTT ST) AT CLINTON ST	IL RTE 53 NB (SCOTT ST) AT CLAY ST	IL RTE 53 NB (SCOTT ST) AT OHIO ST	IL RTE 53 (RUBY ST) AT IL RTE 53 (BROADWAY ST)	US RTE 30 (PLAINFIELD RD) AT RAYNOR AVE AT RUBY ST/ BLACK ST	US RTE 6 (JACKSON ST) AT HENDERSON AVE	US RTE 6 - IL RTE 171 (COLLINS ST) AT US RTE 6 (JACKSON ST)	IL RTE 171 (COLLINS ST) AT OHIO ST	US RTE 52 (JEFFERSON ST) AT HOUBOLT RD	US RTE 52 (JEFFERSON ST) AT ESSINGTON RD	US RTE 52 (JEFFERSON ST) AT PARK DISTRICT ENTRANCE	US RTE 52 (JEFFERSON ST) AT 129TH INFANTRY DR	US RTE 52 (JEFFERSON ST) AT CATERPILLAR DR	US RTE 52 (JEFFERSON ST) AT BARNEY DR	US RTE 52 (JEFFERSON ST) AT SPRINGFIELD AVE	US RTE 52 (JEFFERSON ST) AT HAMMES AVE	US RTE 52 (JEFFERSON ST) AT IL RTE 7 (LARKIN AVE)	US RTE 52 (JEFFERSON ST) AT STRYKER AVE / WOODLAWN AVE	US RTE 52 (JEFFERSON ST) AT MIDLAND AVE	US RTE 52 (JEFFERSON ST) AT REED ST	US RTE 52 (JEFFERSON ST) AT US RTE 52 (RAYNOR AVE)	US RTE 52 (RAYNOR AVE) AT US RTE 52 (MCDONOUGH ST) / PARK AVE	US RTE 6 - US RTE 52 (MCDONOUGH ST)/ 4TH AVE AT IL RTE 53 - US RTE 52 - US RTE 6 (CHICAGO ST)
TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	222	6	3	4	8	8	8	3	6	2	2	4	3	3	3	1	3	8	15	6	4	2	8	6	10	8	10	9	8	8	8	10	10	8	8	1	8
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AT INDICATED INTERSECTIONS AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

222 EACH TRAFFIC SIGNAL BACKPLATE

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
RETROREFLECTIVE TRAFFIC SIGNAL BACKPLATES

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	24
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\01-7-1-TRAFFIC SIGNAL BACKPLATES_S00.dgn

REMOVAL AND RELOCATION NOTES:

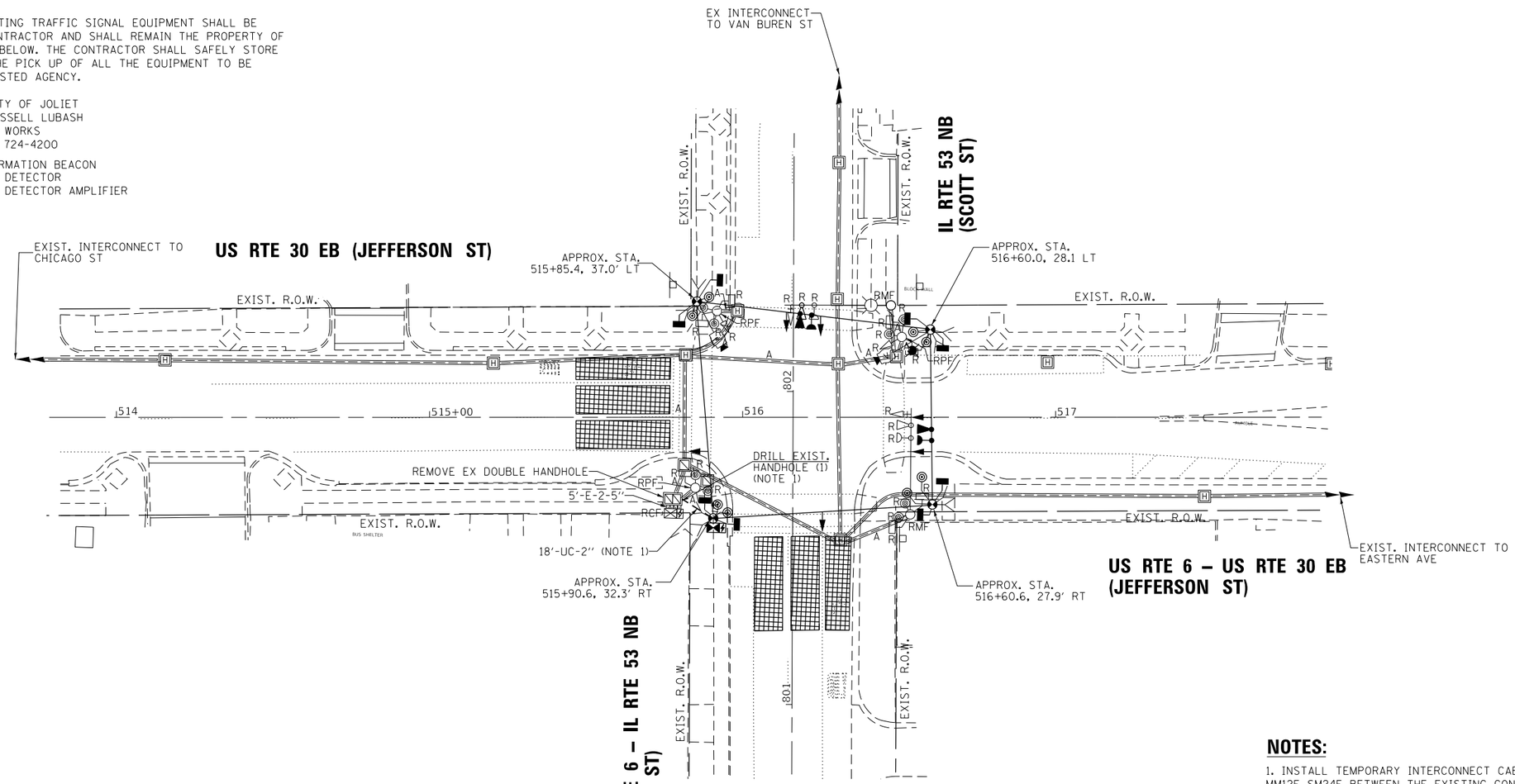
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
1	EACH	STEEL MAST ARM ASSEMBLY AND POST
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POST
3	EACH	TRAFFIC SIGNAL POST
4	EACH	3-SECTION SIGNAL HEAD
8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	PEDESTRIAN PUSH BUTTON
1	EACH	SERVICE INSTALLATION
2	EACH	TRAFFIC SIGNAL BACKPLATE

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
CONTACT PERSON: RUSSELL LUBASH
DEPARTMENT: PUBLIC WORKS
PHONE NUMBER: (815) 724-4200

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER



NOTES:

1. INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 MM12F SM24F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET, FOR THE PURPOSE OF MAINTAINING EXISTING INTERCONNECT SYSTEM. THE CONTRACTOR SHALL MAINTAIN THIS EXISTING CABINET AND DOUBLE HANDHOLE IN PLACE UNTIL THE PROPOSED INTERCONNECT IS INSTALLED AND OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

TS 22531
ECON 121
LOCATION NO. 1B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\82 TS_22531_01_Jefferson St-Scott St_TEMP_INT.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL: (773) 774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

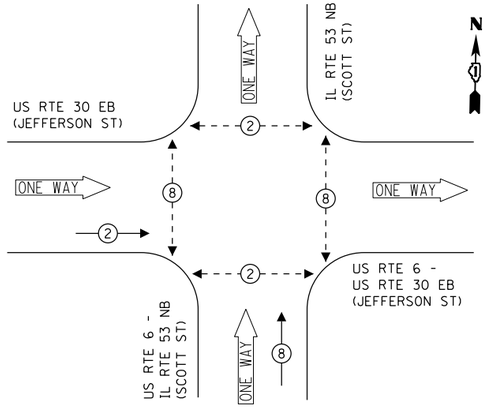
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN US RTE 6 – US RTE 30 EB (JEFFERSON ST) AT US RTE 6 – IL RTE 53 NB (SCOTT ST)

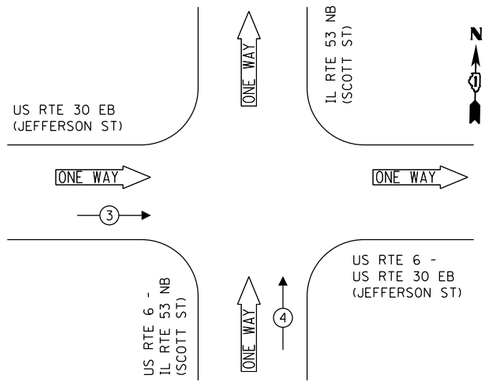
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	25
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

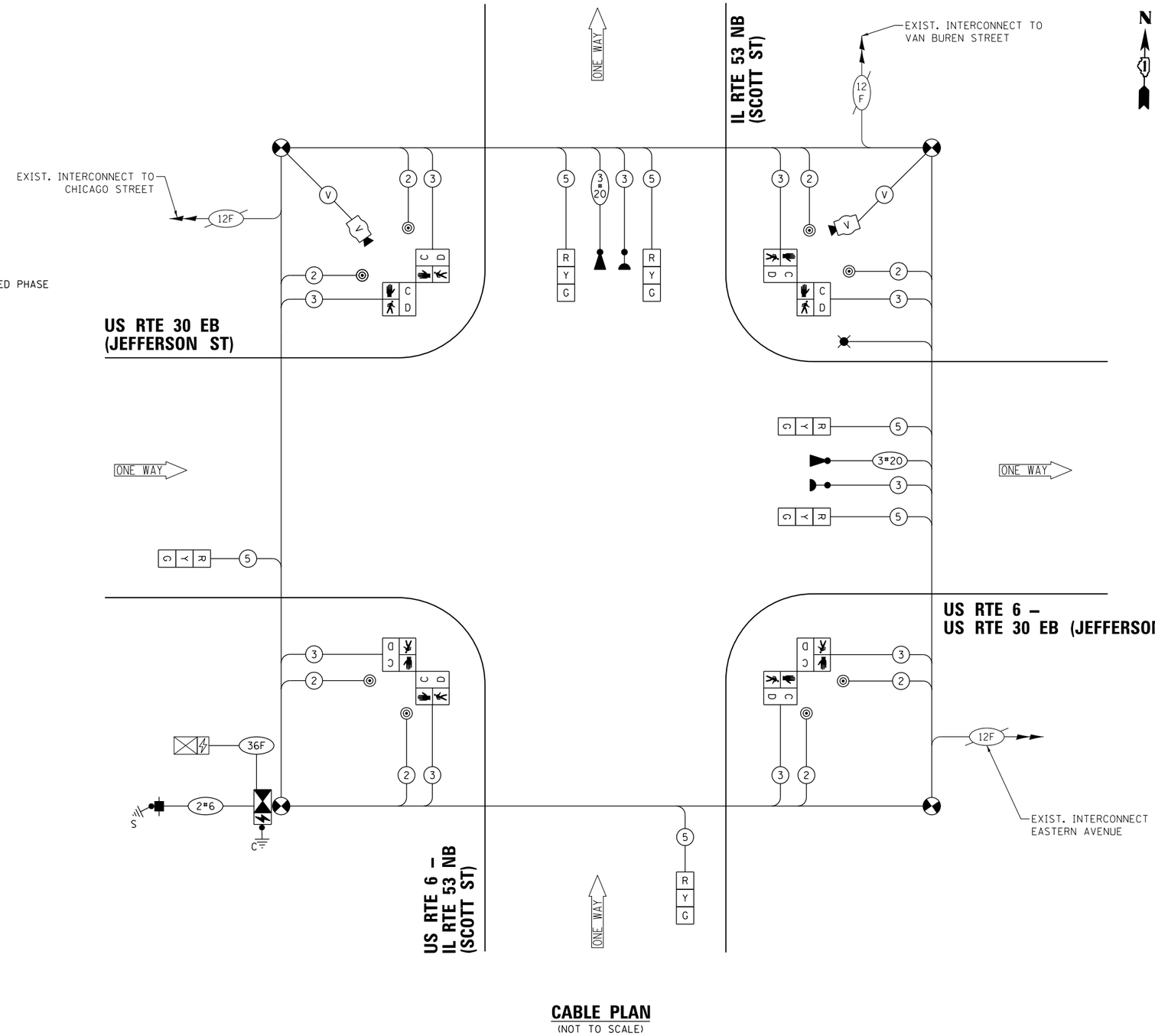
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	280	50	140.0
			TOTAL =	646.4

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

TS 22531
ECON 121
LOCATION NO. 1B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\82 TS_22531_02_Jefferson St-Scott St_TEMP_CD.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5900

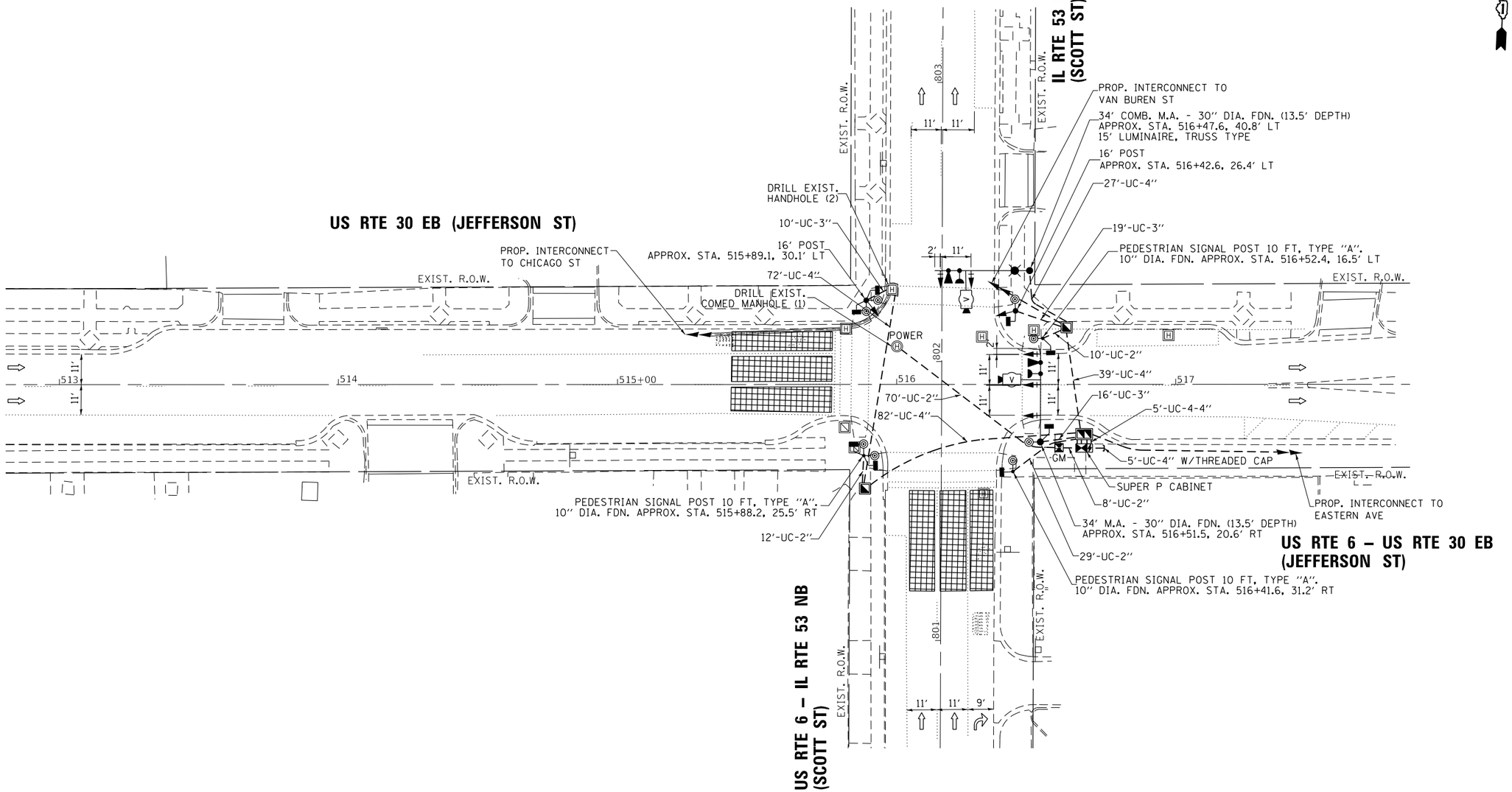
USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE US RTE 6 – US RTE 30 EB (JEFFERSON ST) AT US RTE 6 – IL RTE 53 NB (SCOTT ST)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	26
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



TS 22531
ECON 121
LOCATION NO. 1B

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60631 TEL.(773)774-5900	USER NAME = $USER$	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0001 ' / in.	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

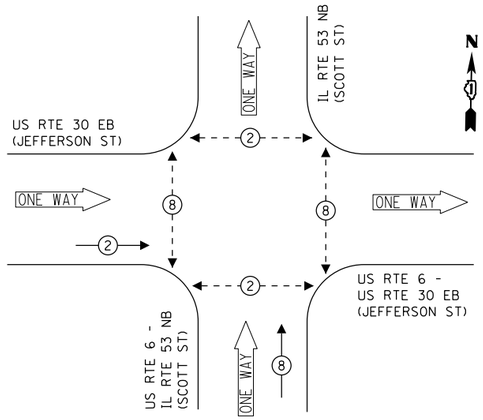
TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 6 – US RTE 30 EB (JEFFERSON ST) AT US RTE 6 – IL RTE 53 NB (SCOTT ST)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

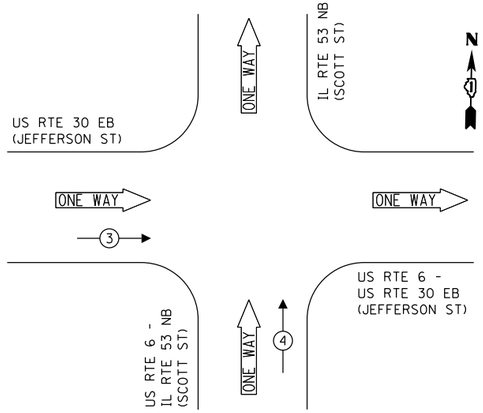
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	27
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\02 TS_22531_03_Jefferson St-Scott St_INT.dgn

PROPOSED CONTROLLER SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	7	11	50	38.5
(YELLOW)	7	20	5	7.0
(GREEN)	7	12	45	37.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	1	240	50	120.0
			TOTAL =	758.3

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

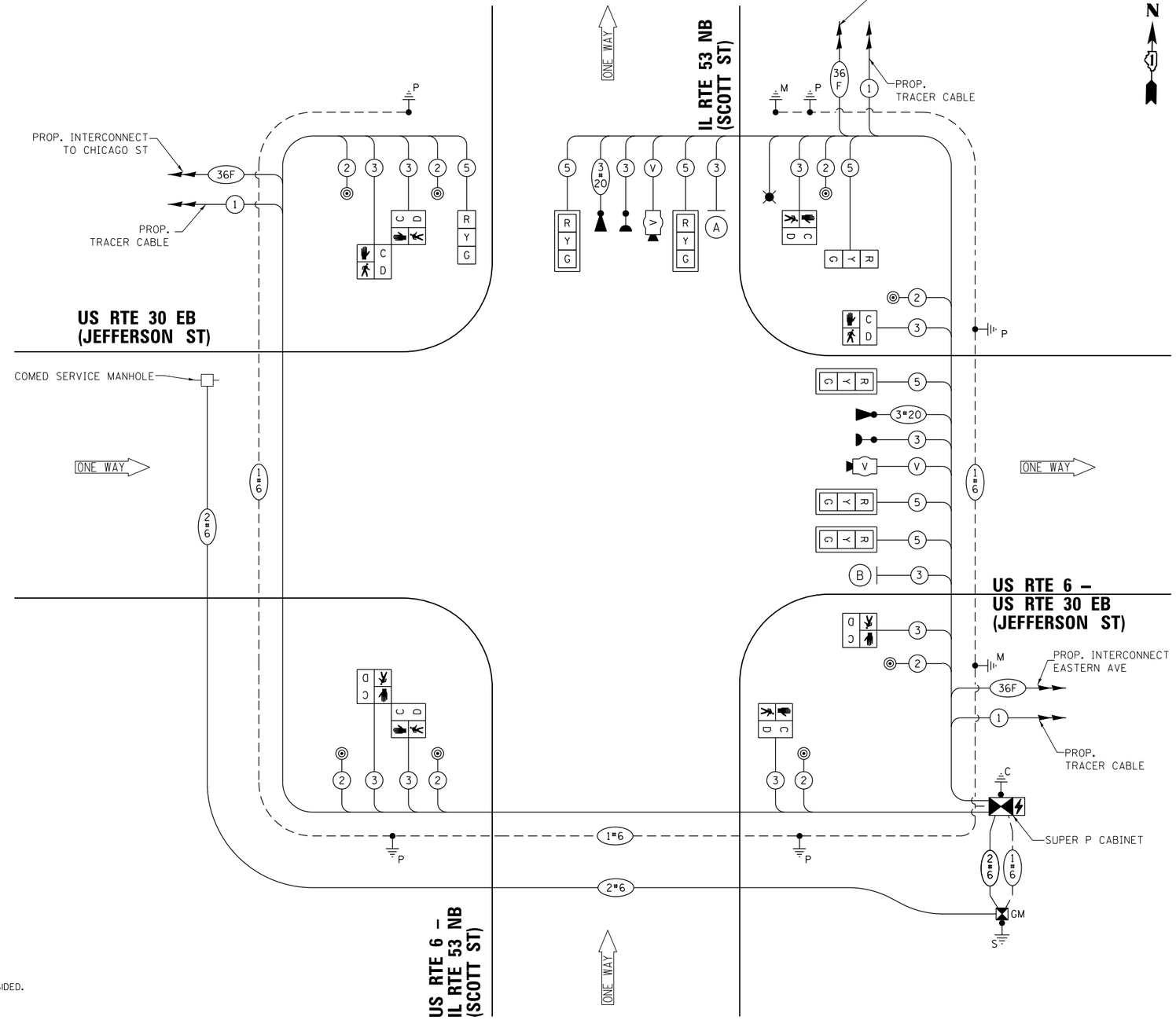
(A)

ILLUMINATED SIGN
(1 REQUIRED)

(B)

ILLUMINATED SIGN
(1 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

TS 22531
ECON 121
LOCATION NO. 1B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE US RTE 6 – US RTE 30 EB (JEFFERSON ST) AT US RTE 6 – IL RTE 53 NB (SCOTT ST)

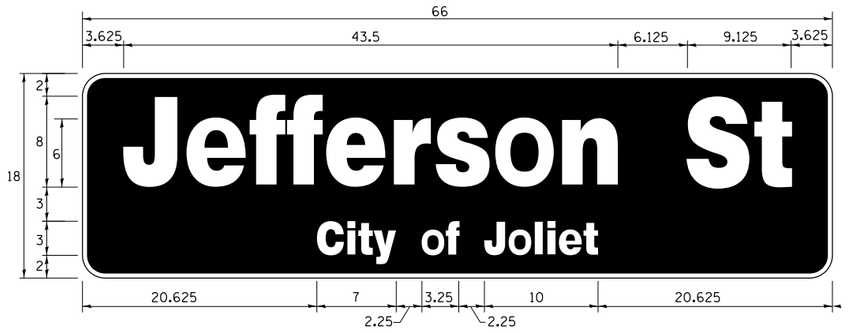
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	28
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\02 TS_22531_04_Jefferson St-Scott St_CD.dgn

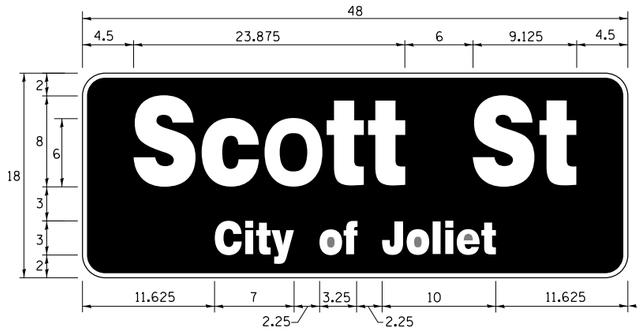
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
**	ROCK EXCAVATION	CU YD	4
**	DRILLED SHAFT IN ROCK	CU YD	7
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	129
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	45
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	245
	HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	970
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1250
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	870
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	120
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	540
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	27
	DRILL EXISTING HANDHOLE	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	5
*	LIGHT DETECTOR	EACH	2
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	8
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	237
*	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
**	DIRECTIONAL BORING THROUGH ROCK	FOOT	335
	PEDESTRIAN SIGNAL POST, 10 FT	EACH	3
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
	TEMPORARY INFORMATION SIGNING	SQ FT	51.4
*	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	193

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

TS 22531
ECON 121
LOCATION NO. 1B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\02 TS_22531_05_Jefferson St-Scott St_C02.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.:773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED LED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES US RTE 6 – US RTE 30 EB (JEFFERSON ST) AT US RTE 6 – IL RTE 53 NB (SCOTT ST)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	29
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

REMOVAL AND RELOCATION NOTES:

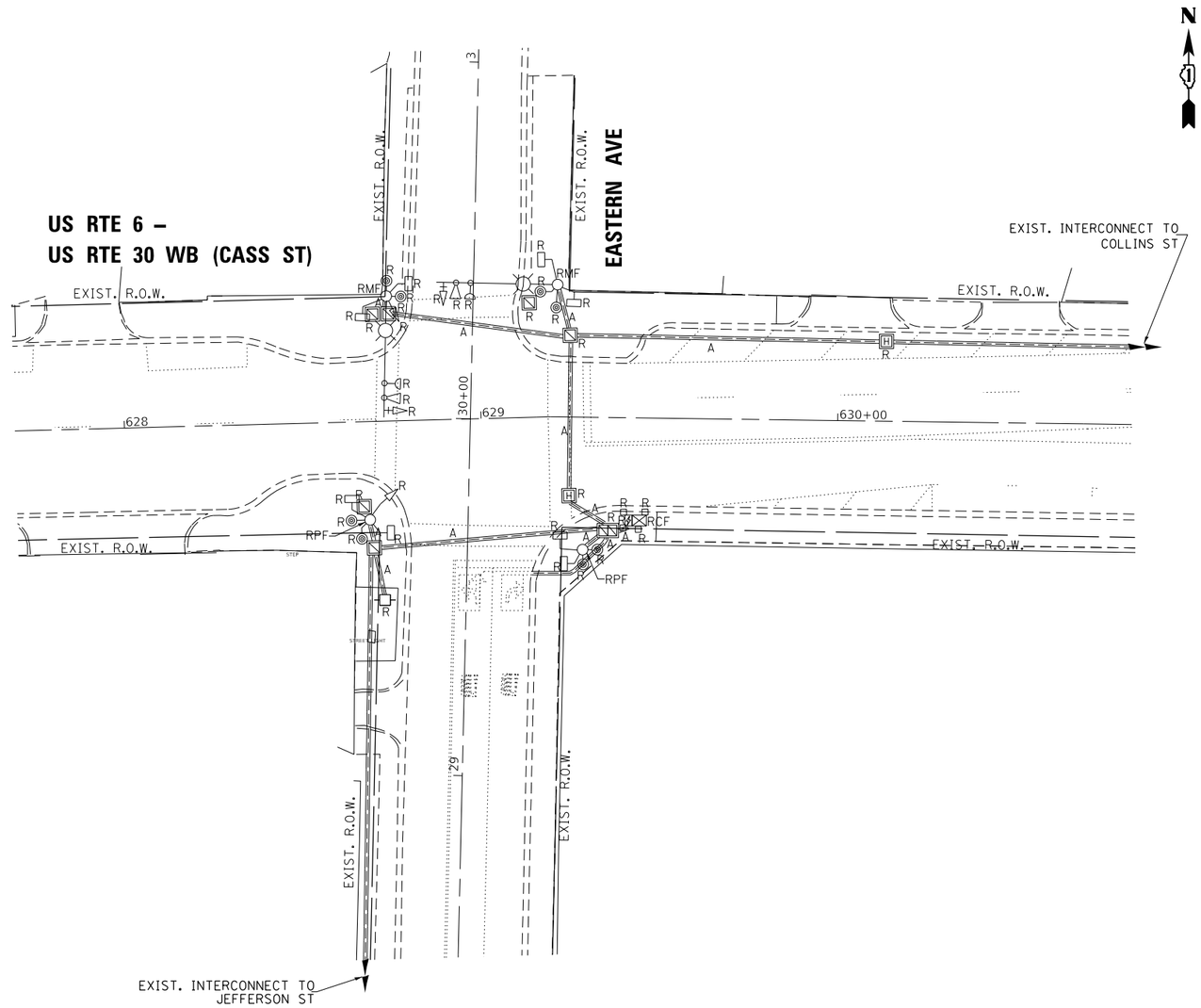
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POST
2	EACH	TRAFFIC SIGNAL POST
4	EACH	3-SECTION SIGNAL HEAD
8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION
2	EACH	TRAFFIC SIGNAL BACKPLATE
4	EACH	BOLLARD REMOVAL

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
CONTACT PERSON: RUSSELL LUBASH
DEPARTMENT: PUBLIC WORKS
PHONE NUMBER: (815) 724-4200

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER



NOTES:

1. THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THIS INTERSECTION SHALL REMAIN IN OPERATION UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION. THE EXISTING TRAFFIC SIGNAL INSTALLATION SHALL BE REMOVED AFTER THE NEW SIGNAL INSTALLATION BECOMES OPERATIONAL.

2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

TS 21780
ECON 123
LOCATION NO. 2B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -	
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

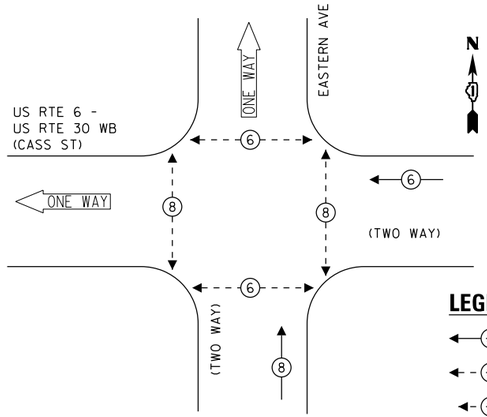
EXISTING TRAFFIC SIGNAL INSTALLATION PLAN
AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US RTE 6 – US RTE 30 WB (CASS ST) AT EASTERN AVE

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	30
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\99 TS_21780_01_Cass St-Eastern Ave_TEMP_INT.dgn

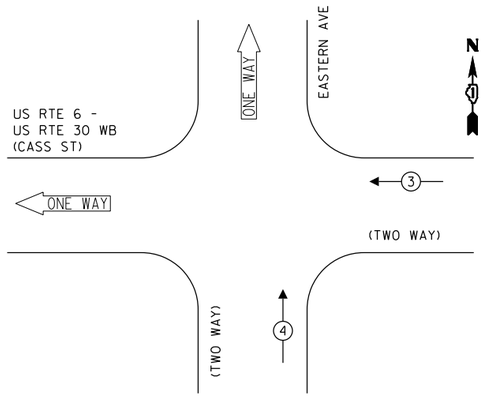
EXISTING CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



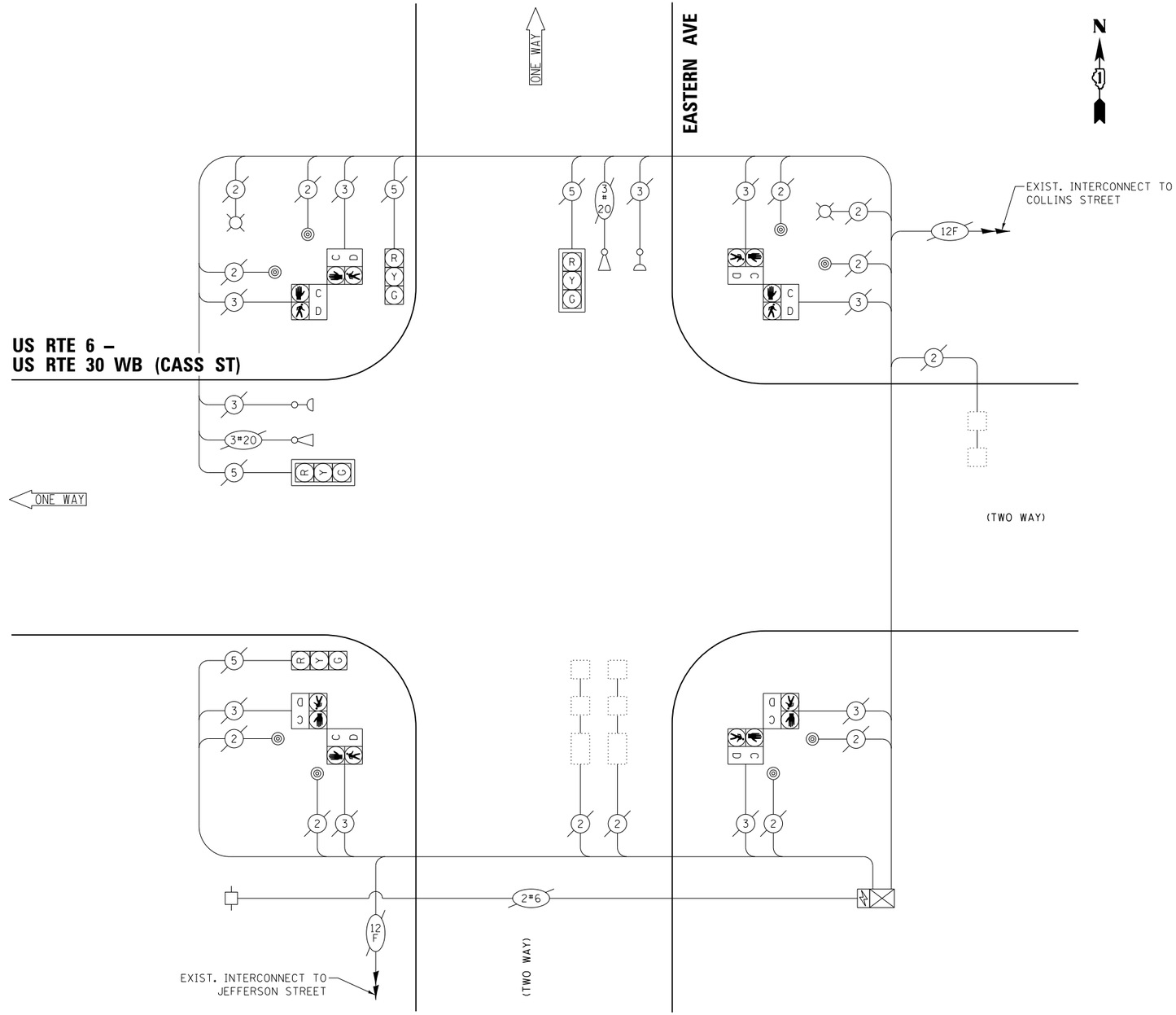
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	4	11	50	22.0
(YELLOW)	4	20	5	4.0
(GREEN)	4	12	45	21.6
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	332.6

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN

(NOT TO SCALE)

TS 21780
ECON 123
LOCATION NO. 2B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\09 TS_21780_02_Cass St-Eastern Ave_TEMP_CD.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL: (773) 774-5900

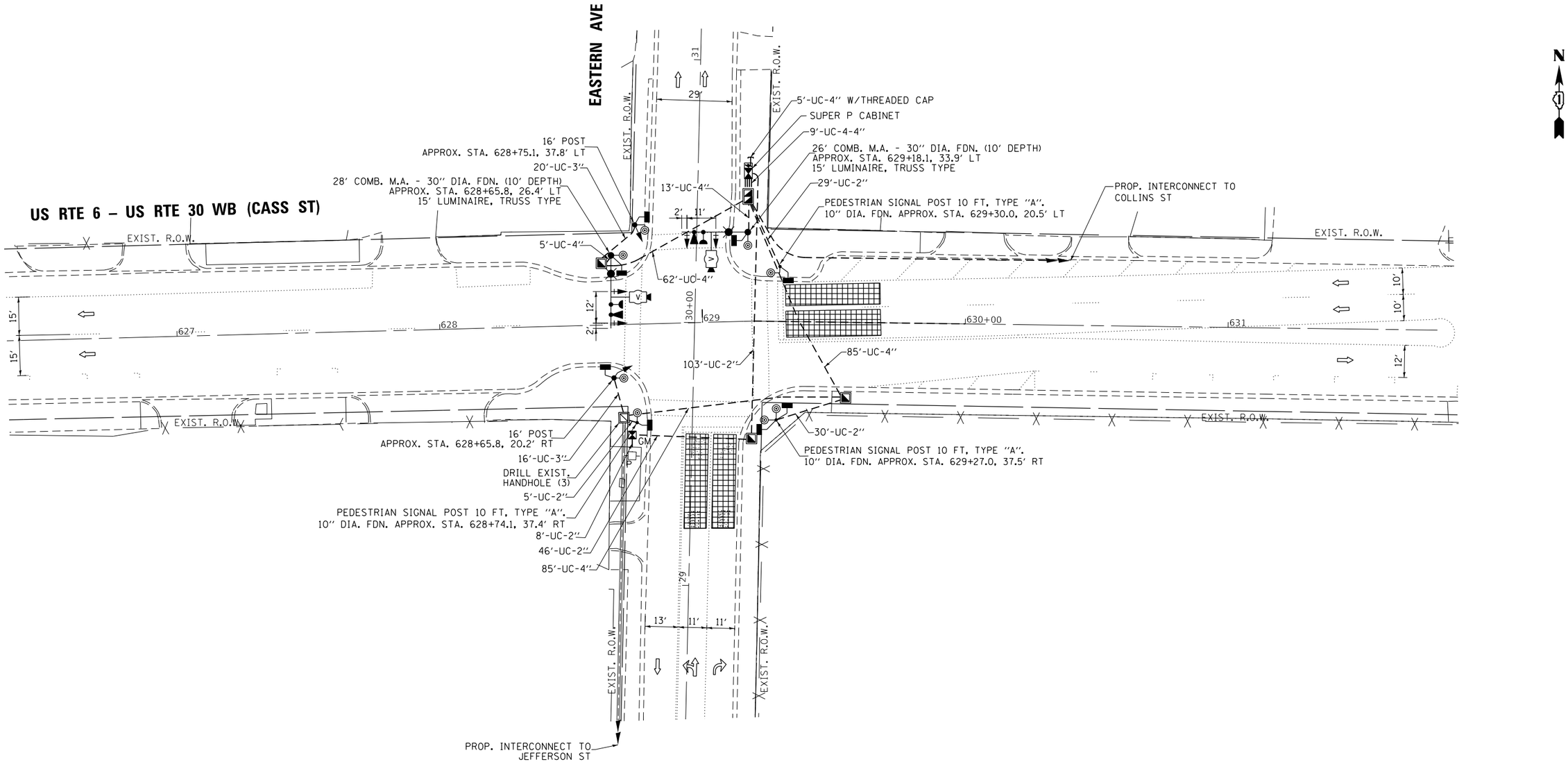
USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM, AND EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 6 – US RTE 30 WB (CASS ST) AT EASTERN AVE

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	31
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

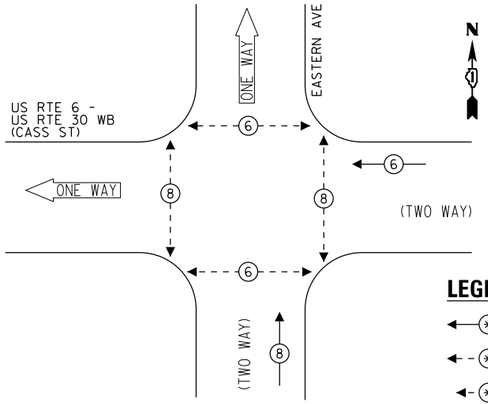


TS 21780
ECON 123
LOCATION NO. 2B

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60631 TEL.:773)774-5900	USER NAME = $USER$	DESIGNED - EA	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TRAFFIC SIGNAL MODERNIZATION PLAN US RTE 6 – US RTE 30 WB (CASS ST) AT EASTERN AVE**				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - EA, AV	REVISED -						VAR	2020-196-TS&I	WILL	65	32
	PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -								CONTRACT NO. 62M72		
	PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -		SCALE: 1''=20'	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\04 TS_21780_03_Cass St-Eastern Ave_INT.dgn

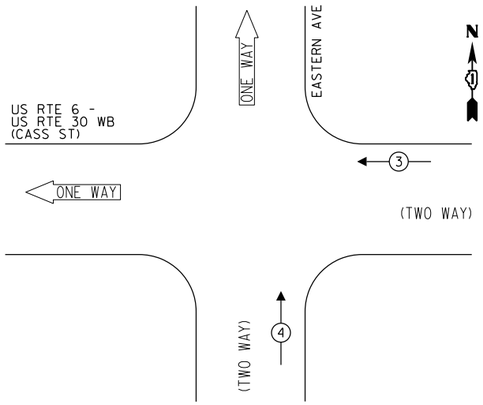
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	6	11	50	33.0
(YELLOW)	6	20	5	6.0
(GREEN)	6	12	45	32.4
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	2	240	50	240.0
			TOTAL =	866.4

ENERGY COSTS TO:

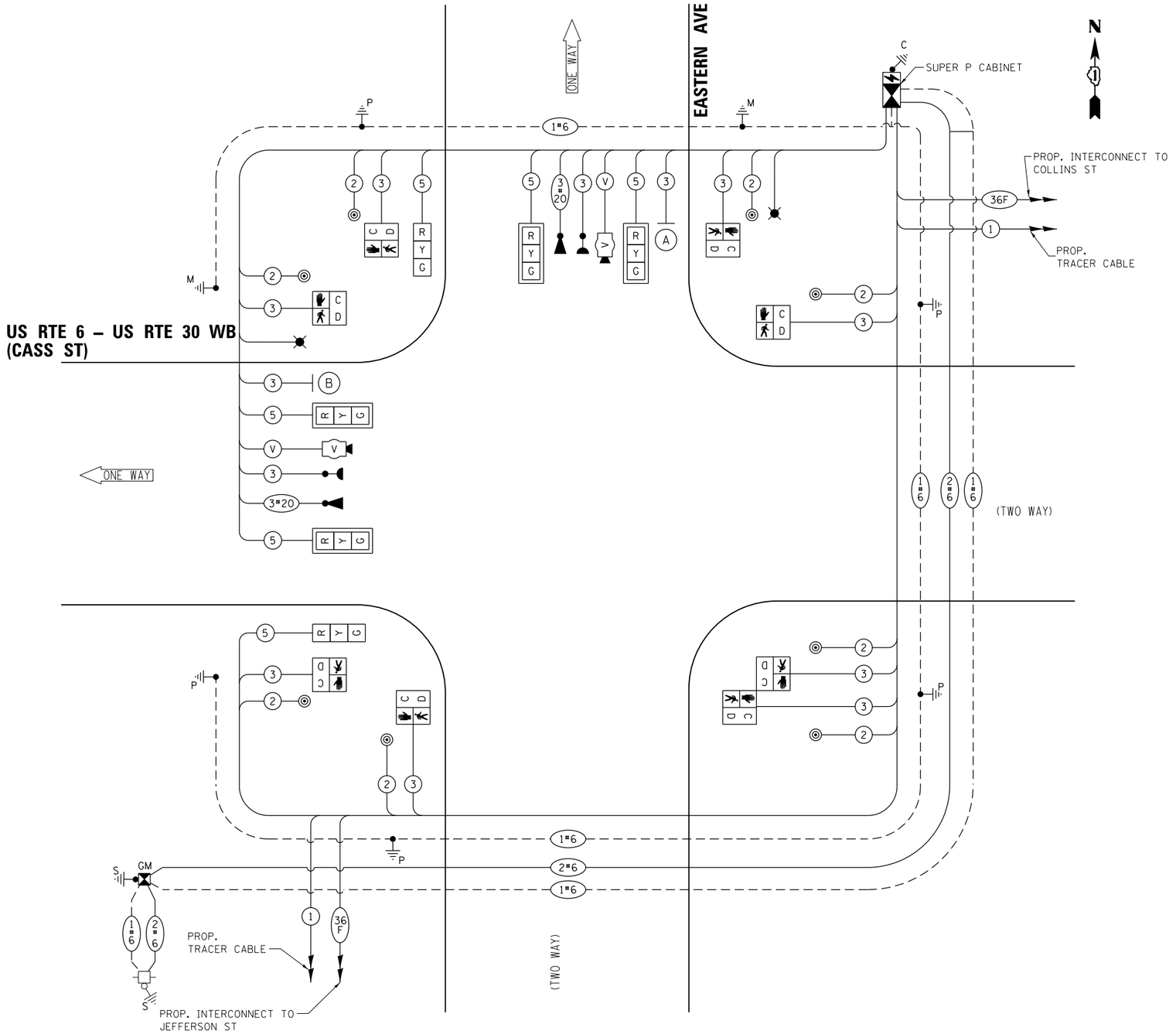
CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

(A) Cass St — City of Joliet
ILLUMINATED SIGN (1 REQUIRED)

(B) Eastern Ave — City of Joliet
ILLUMINATED SIGN (1 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

TS 21780
ECON 123
LOCATION NO. 2B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\09 TS_21780_04_Cass St-Eastern Ave.CD.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL: (773) 774-5900

USER NAME = $USER$ | DESIGNED - EA | REVISED -
DRAWN - EA, AV | REVISED -
PLOT SCALE = 40.0000 ' / in. | CHECKED - PKG | REVISED -
PLOT DATE = $DATE$ | DATE - 6/1/2020 | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

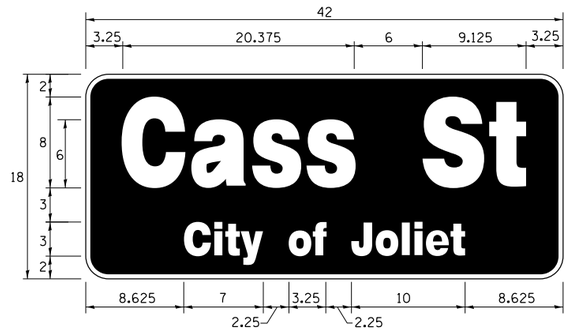
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 6 – US RTE 30 WB (CASS ST) AT EASTERN AVE

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	33
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

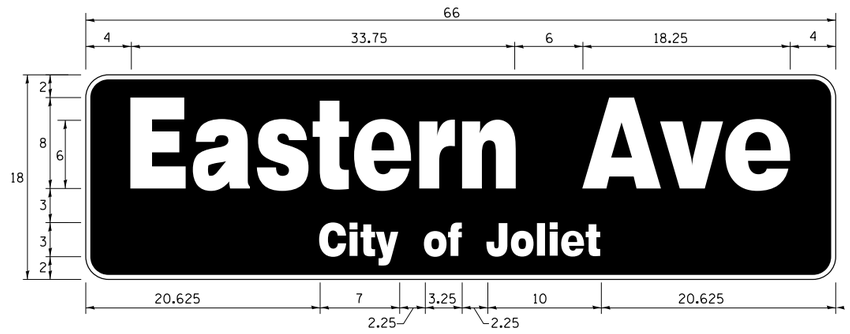
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	5. 25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	8. 25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
**	ROCK EXCAVATION	CU YD	5
**	DRILLED SHAFT IN ROCK	CU YD	3. 5
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	221
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	36
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	291
	HANDHOLE	EACH	3
	DOUBLE HANDHOLE	EACH	1
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1018
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1290
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	780
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	199
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	735
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 26 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
	DRILL EXISTING HANDHOLE	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	4
*	LIGHT DETECTOR	EACH	2
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	8
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	7
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	220
*	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
**	DIRECTIONAL BORING THROUGH ROCK	FOOT	440
	PEDESTRIAN SIGNAL POST, 10 FT	EACH	3
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12
	TEMPORARY INFORMATION SIGNING	SQ FT	25. 7
*	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	205

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

TS 21780
ECON 123
LOCATION NO. 2B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.:7737774-5910

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -	
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED LED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
US RTE 6 – US RTE 30 WB (CASS ST) AT EASTERN AVE

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	34
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\09 TS_21780_05_Cass St-Eastern Ave_C02.dgn

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

2	EACH	STEEL MAST ARM ASSEMBLY AND POST
2	EACH	TRAFFIC SIGNAL POST
4	EACH	3-SECTION SIGNAL HEAD
8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION
2	EACH	TRAFFIC SIGNAL BACKPLATE

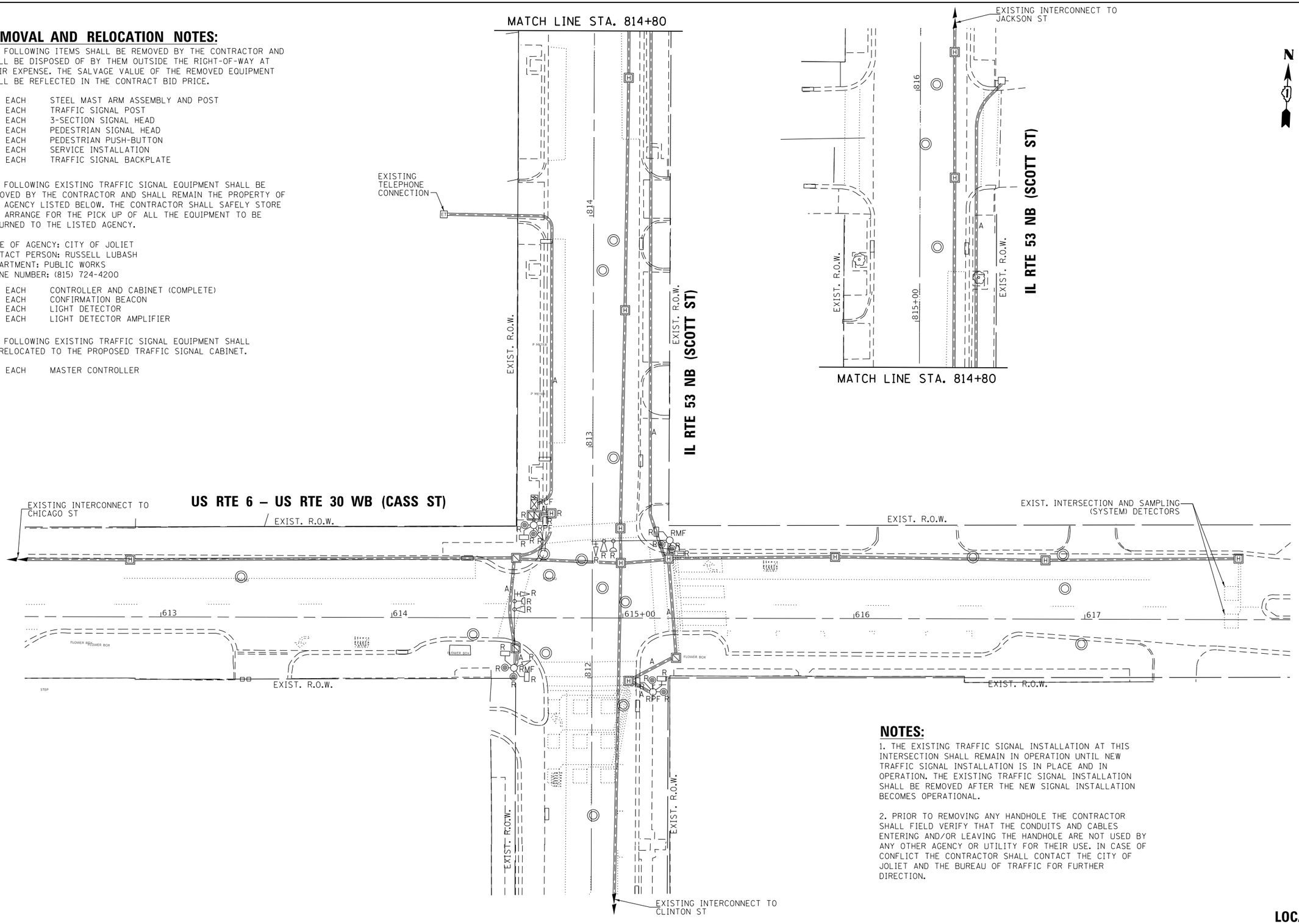
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

NAME OF AGENCY: CITY OF JOLIET
CONTACT PERSON: RUSSELL LUBASH
DEPARTMENT: PUBLIC WORKS
PHONE NUMBER: (815) 724-4200

1	EACH	CONTROLLER AND CABINET (COMPLETE)
2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET.

1	EACH	MASTER CONTROLLER



NOTES:

1. THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THIS INTERSECTION SHALL REMAIN IN OPERATION UNTIL NEW TRAFFIC SIGNAL INSTALLATION IS IN PLACE AND IN OPERATION. THE EXISTING TRAFFIC SIGNAL INSTALLATION SHALL BE REMOVED AFTER THE NEW SIGNAL INSTALLATION BECOMES OPERATIONAL.

2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

TS 21803
ECON 121
LOCATION NO. 3B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.:773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0001 ' / in.	CHECKED - PKG	REVISED -	
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

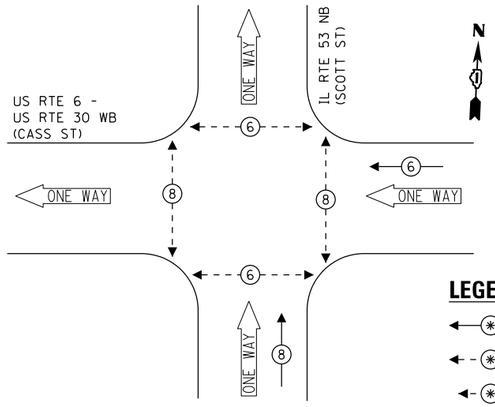
EXISTING TRAFFIC SIGNAL PLAN
AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN
US RTE 6 – US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	35
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\10 TS_21803_01_Cass St- Scott St_TEMP_INT.dgn

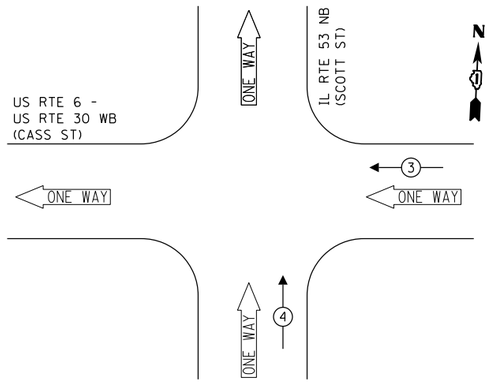
EXISTING CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP (OL)

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



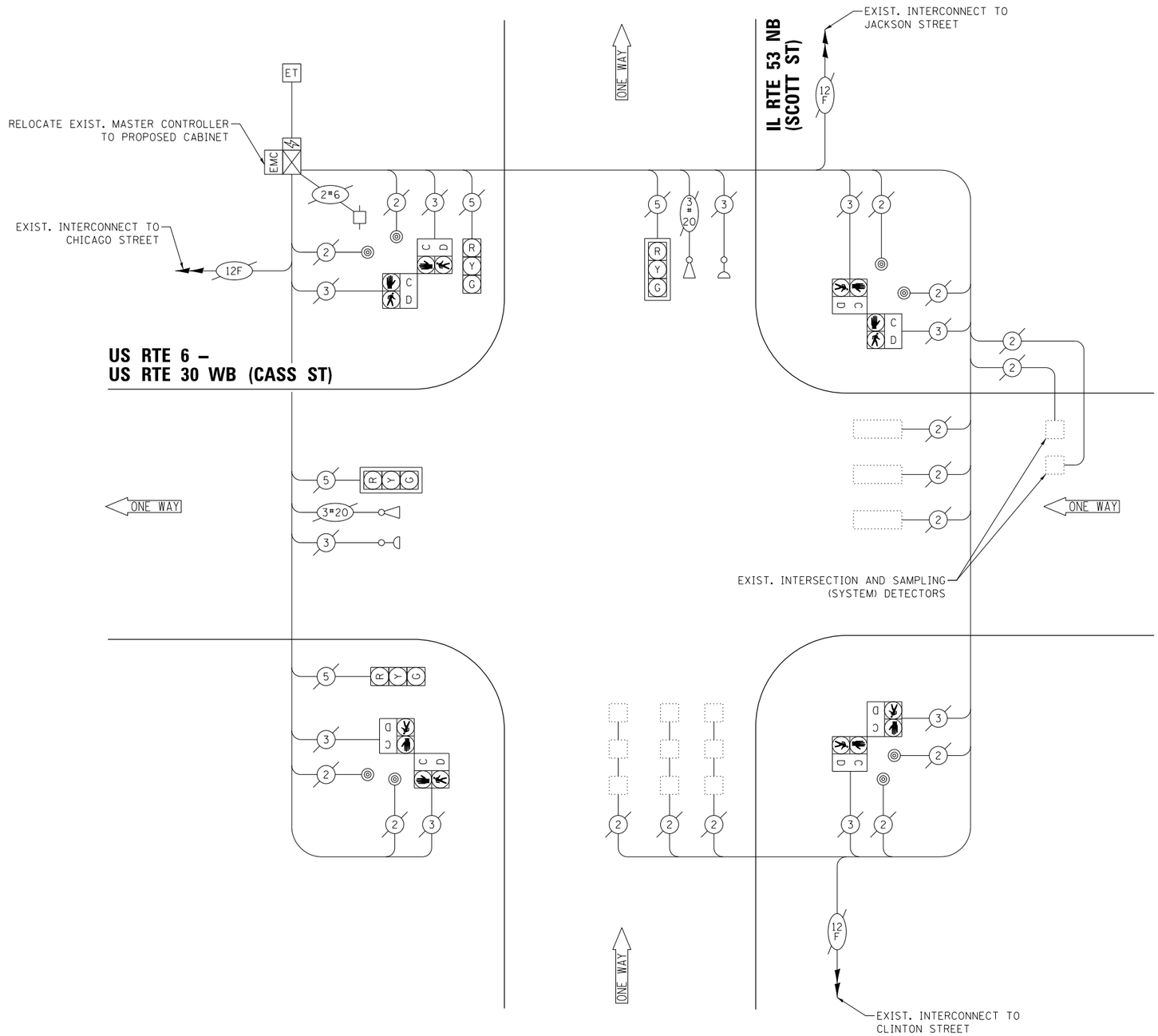
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	4	11	50	22.0
(YELLOW)	4	20	5	4.0
(GREEN)	4	12	45	21.6
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	332.6

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

TS 21803
ECON 121
LOCATION NO. 3B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL: (773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

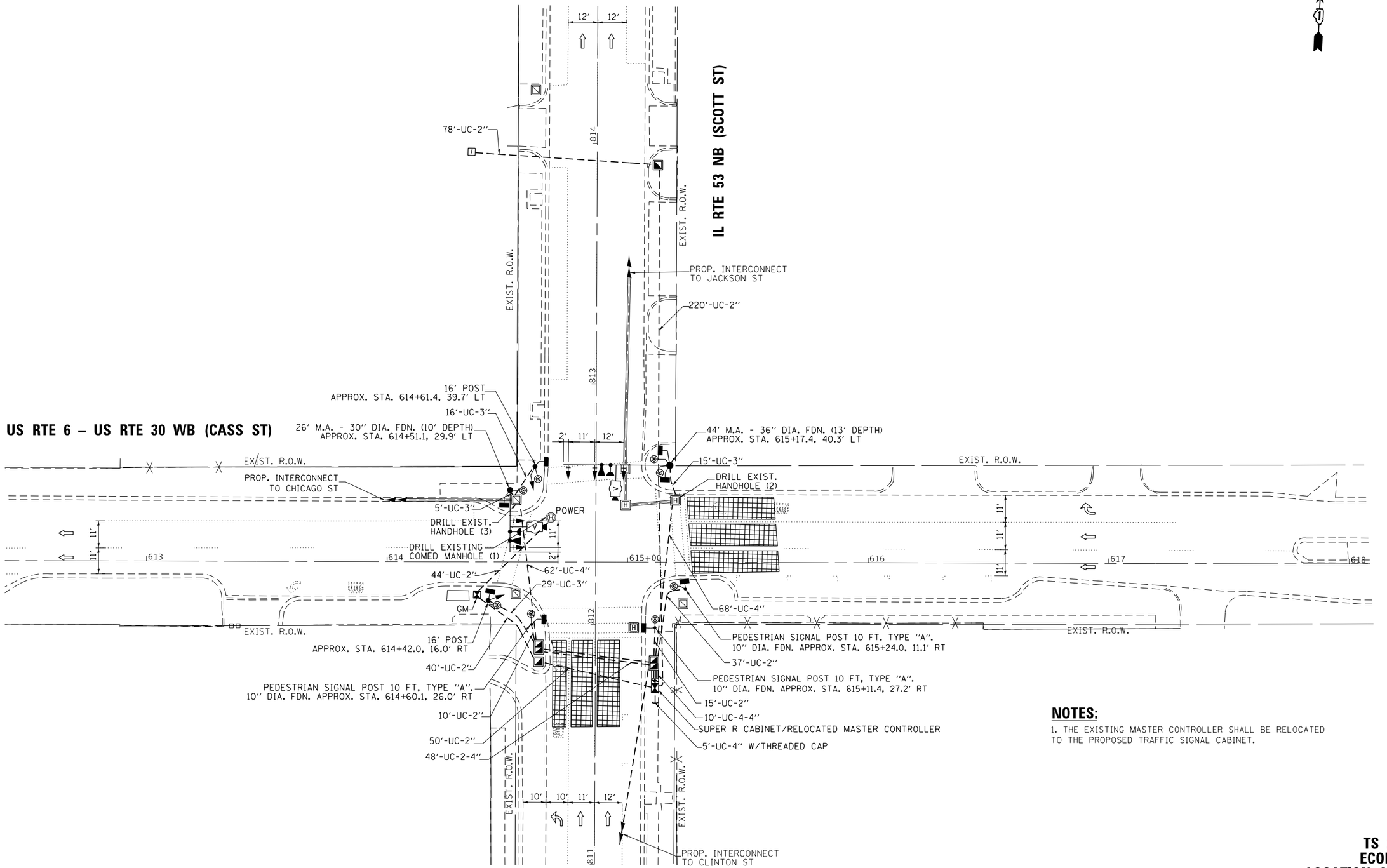
EXISTING CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM, AND EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 6 – US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	36
		CONTRACT NO. 62M72		

FED. ROAD DIST. NO. - | ILLINOIS | FED. AID PROJECT

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\10 TS.21803.02_Cass St- Scott St.TEMP_CD.dgn



NOTES:

1. THE EXISTING MASTER CONTROLLER SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET.

TS 21803
ECON 121
LOCATION NO. 3B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\10 TS_21803_03_Cass St- Scott St_INT.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL./773/774-5900

USER NAME = #USER#	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0001 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = #DATE#	DATE - 6/1/2020	REVISED -

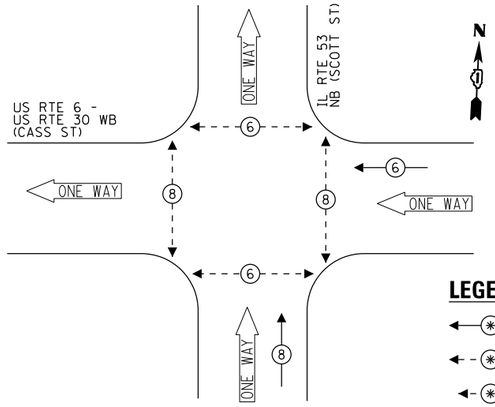
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODERNIZATION PLAN
US RTE 6 – US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	37
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

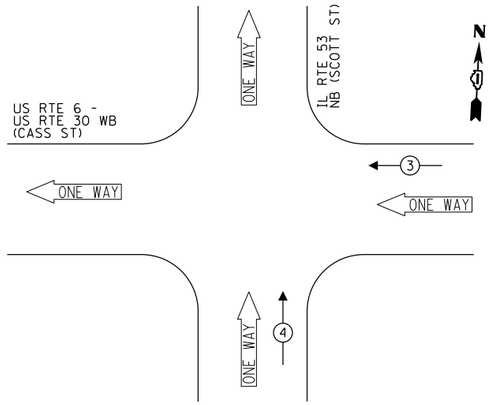
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	7	11	50	38.5
(YELLOW)	7	20	5	7.0
(GREEN)	7	12	45	37.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	2	120	50	120.0
LUMINAIRE	-	-	-	-
			TOTAL =	638.3

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

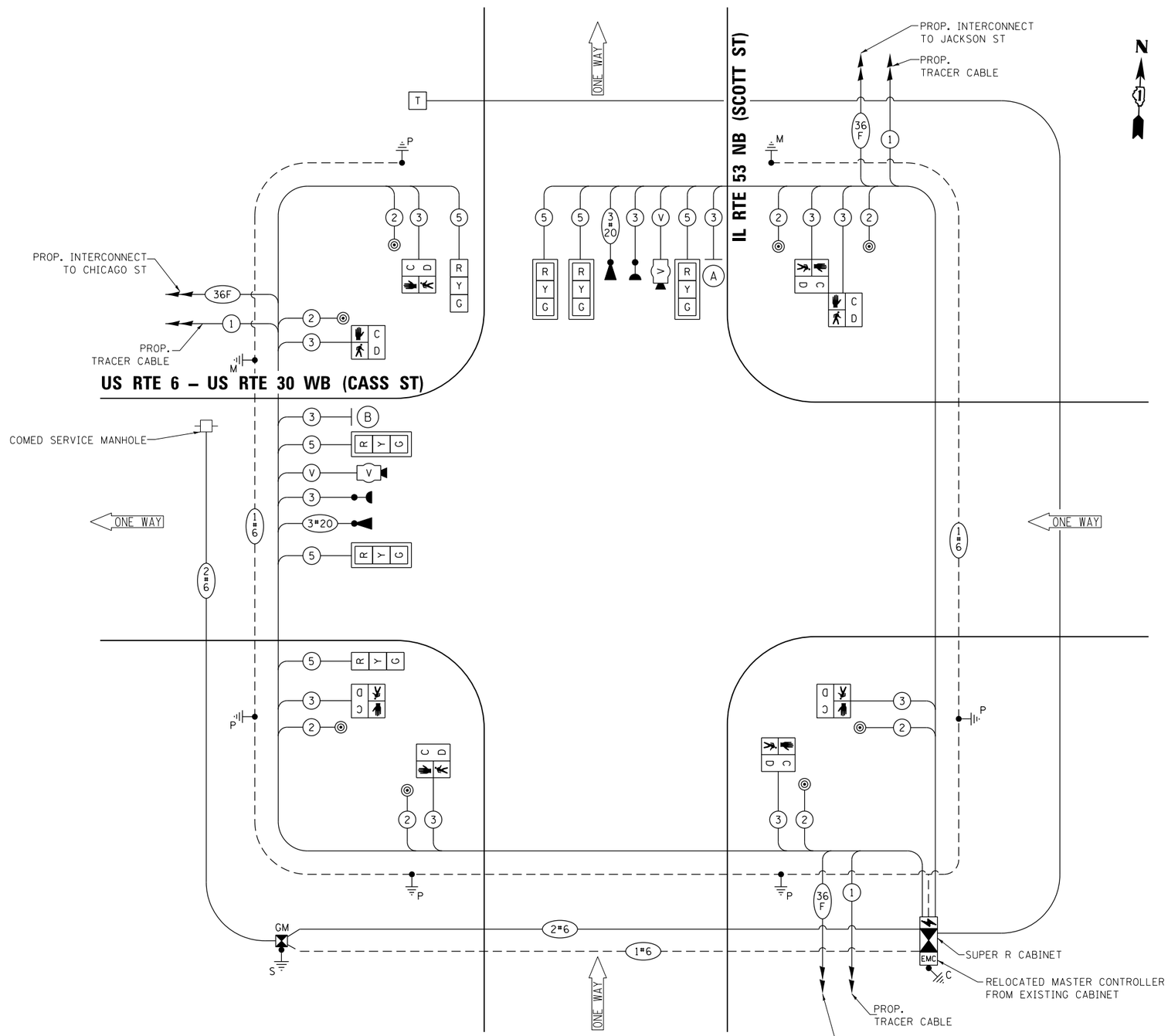
(A)

ILLUMINATED SIGN
(1 REQUIRED)

(B)

ILLUMINATED SIGN
(1 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

TS 21803
ECON 121
LOCATION NO. 3B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\10 TS_21803_04_Cass St- Scott St_CD.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.:773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

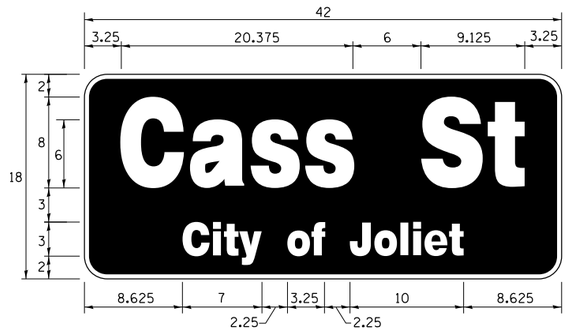
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 6 – US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	38
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

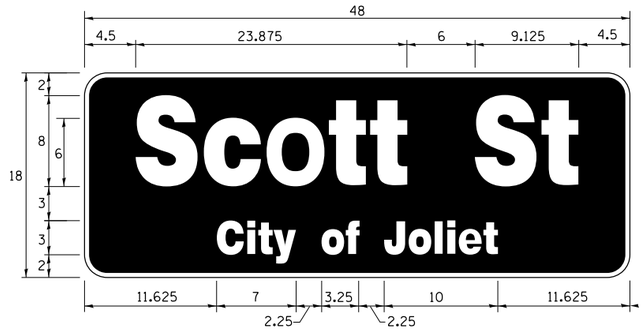
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	5.25	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
**	ROCK EXCAVATION	CU YD	5.5
**	DRILLED SHAFT IN ROCK	CU YD	5
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	494
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	60
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	271
	HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	2
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	984
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1422
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1260
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	183
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	587
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	10
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
	DRILL EXISTING HANDHOLE	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	5
*	LIGHT DETECTOR	EACH	2
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	8
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	1
	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	382
*	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	2
	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
**	DIRECTIONAL BORING THROUGH ROCK	FOOT	660
	PEDESTRIAN SIGNAL POST, 10 FT	EACH	3
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	2
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	12
	RELOCATE EXISTING MASTER CONTROLLER	EACH	1
	TEMPORARY INFORMATION SIGNING	SQ FT	51.4
*	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	347

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

TS 21803
ECON 121
LOCATION NO. 3B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED LED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
US RTE 6 – US RTE 30 WB (CASS ST) AT IL RTE 53 NB (SCOTT ST)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	39
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\10 TS_21803.05_Cass St- Scott St_CD2.dgn

REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
2	EACH	STEEL MAST ARM ASSEMBLY AND POST
2	EACH	TRAFFIC SIGNAL POST
5	EACH	3-SECTION SIGNAL HEAD
2	EACH	5-SECTION SIGNAL HEAD
8	EACH	PEDESTRIAN SIGNAL HEAD
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	SERVICE INSTALLATION
3	EACH	TRAFFIC SIGNAL BACKPLATE

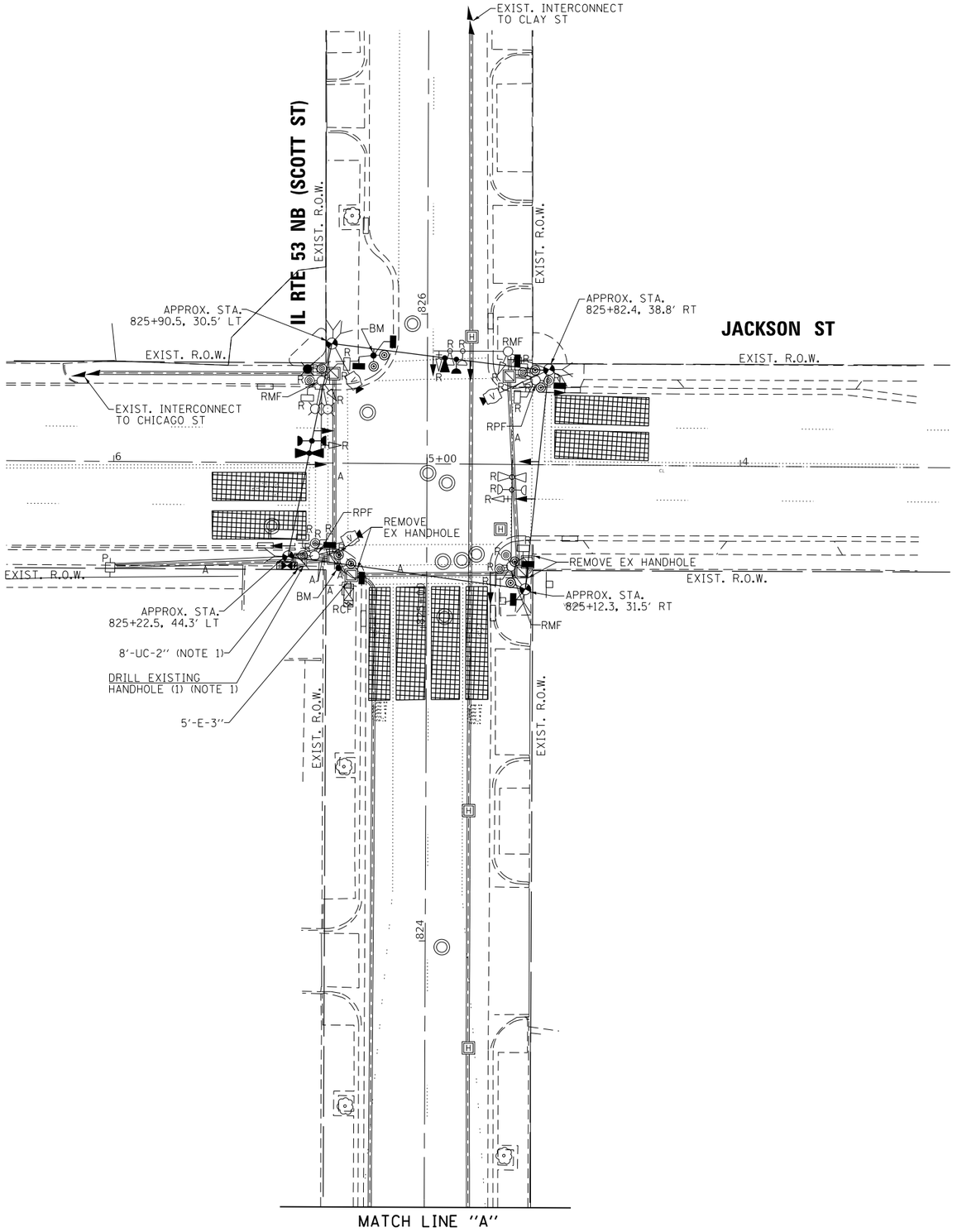
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR THE PICK UP OF ALL THE EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY.

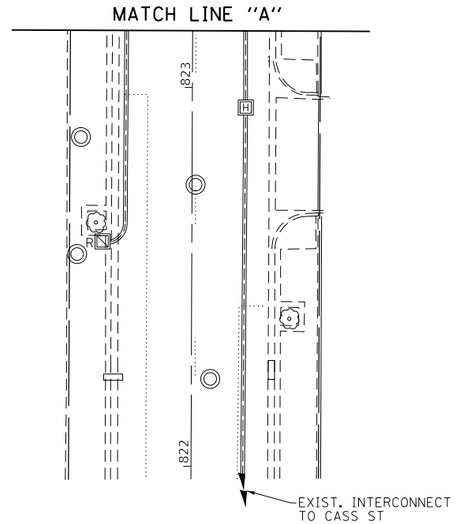
NAME OF AGENCY: CITY OF JOLIET
CONTACT PERSON: RUSSELL LUBASH
DEPARTMENT: PUBLIC WORKS
PHONE NUMBER: (815) 724-4200

2	EACH	CONFIRMATION BEACON
2	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	STEEL MAST ARM ASSEMBLY AND POST (NORTHEAST CORNER)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET.

1	EACH	MASTER CONTROLLER





NOTES:

1. INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 MM12F SM24F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET, FOR THE PURPOSE OF MAINTAINING EXISTING INTERCONNECT SYSTEM. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

2. PRIOR TO REMOVING ANY HANDHOLE THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONDUITS AND CABLES ENTERING AND/OR LEAVING THE HANDHOLE ARE NOT USED BY ANY OTHER AGENCY OR UTILITY FOR THEIR USE. IN CASE OF CONFLICT THE CONTRACTOR SHALL CONTACT THE CITY OF JOLIET AND THE BUREAU OF TRAFFIC FOR FURTHER DIRECTION.

TS 21802
ECON 122
LOCATION NO. 4B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL: (773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -	
	DRAWN - EA, AV	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -	
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

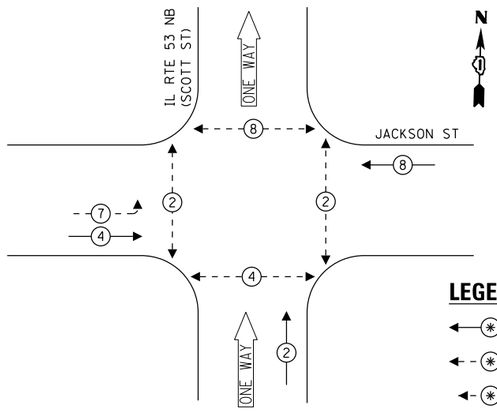
TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT PLAN IL RTE 53 NB (SCOTT ST) AT JACKSON ST

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	40
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\30_TS_21802_01_Jackson St-IL 53 Scott St_TEMP_INT.dgn

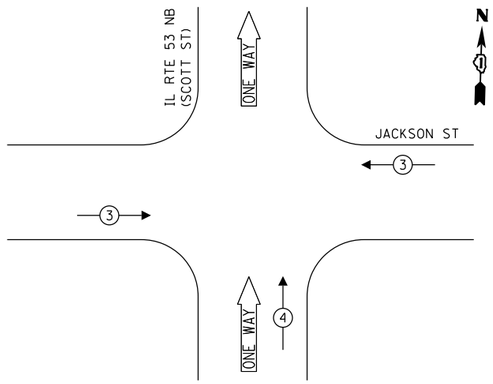
TEMPORARY CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



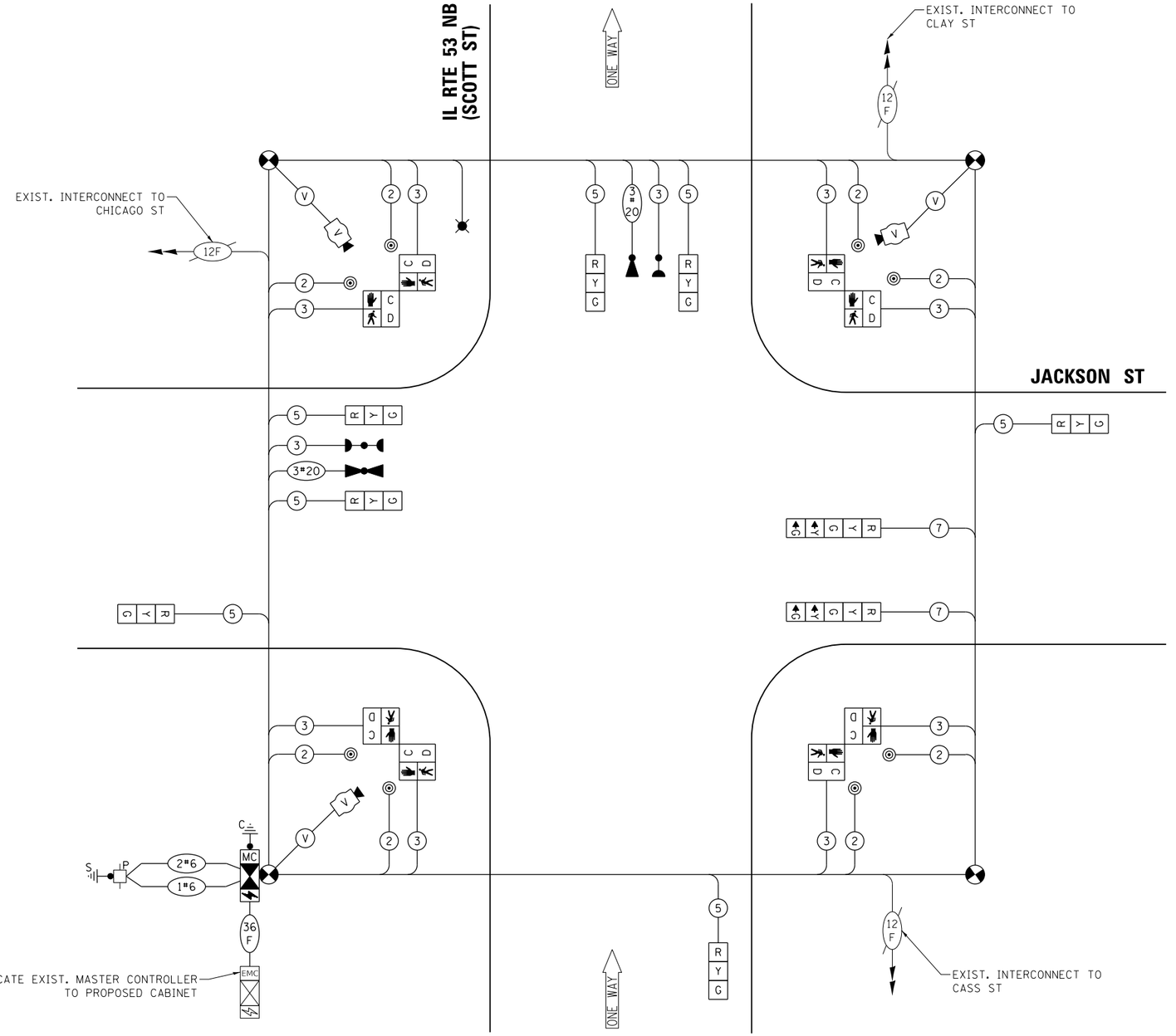
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9	11	50	49.5
(YELLOW)	9	20	5	9.0
(GREEN)	9	12	45	48.6
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
PTZ CAMERA	-	65	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	1	280	50	140.0
			TOTAL =	686.1

ENERGY COSTS TO:

CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:



CABLE PLAN
(NOT TO SCALE)

TS 21802
ECON 122
LOCATION NO. 4B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\30_TS_21802_02_Jackson St-IL 53 Scott St_TEMP_CD.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

USER NAME = $USER$
PLOT SCALE = 40.0000 ' / in.
PLOT DATE = $DATE$

DESIGNED - EA
DRAWN - EA, AV
CHECKED - PKG
DATE - 6/1/2020

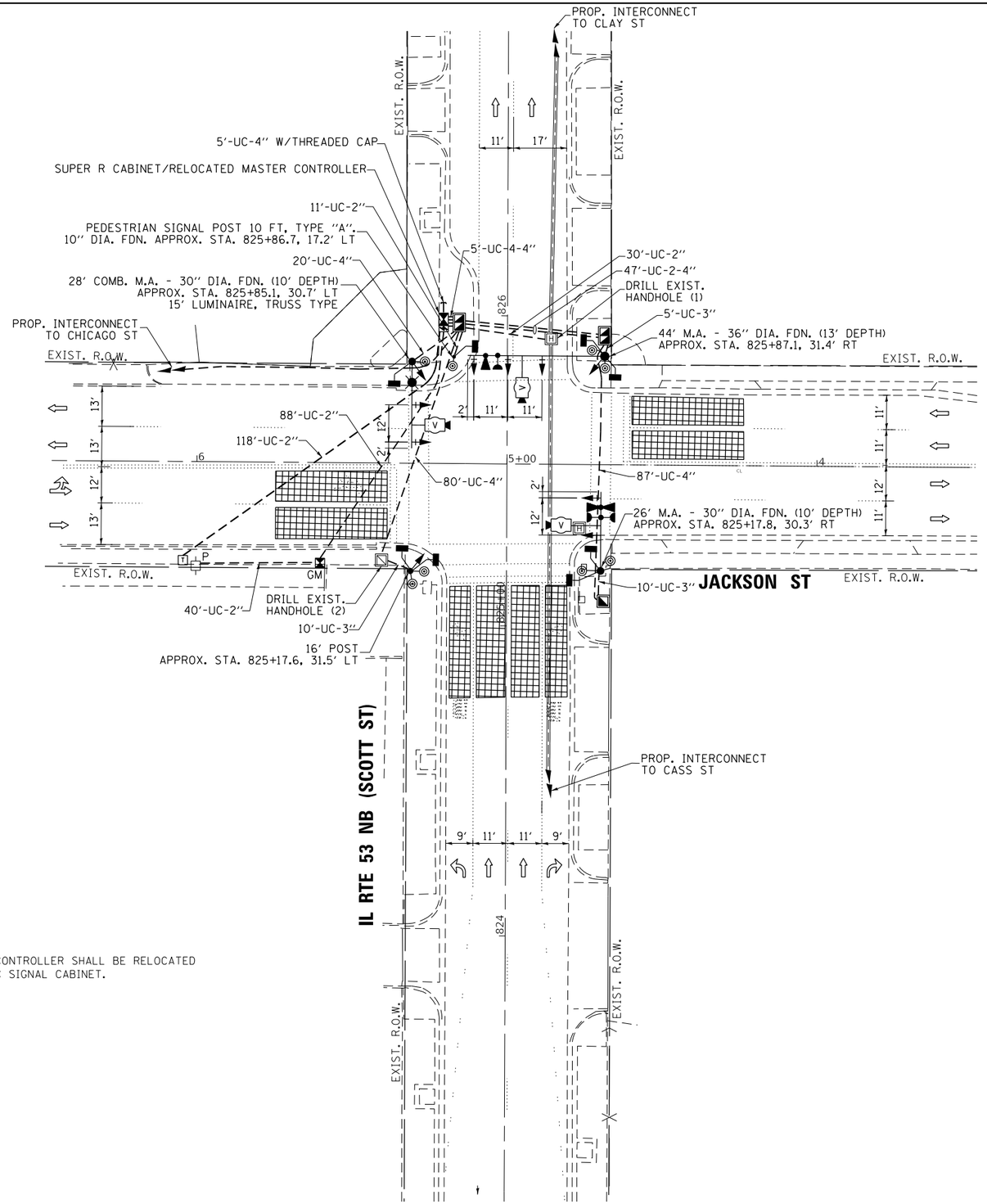
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 53 NB (SCOTT ST) AT JACKSON ST

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	41
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



NOTES:

1. THE EXISTING MASTER CONTROLLER SHALL BE RELOCATED TO THE PROPOSED TRAFFIC SIGNAL CABINET.

TS 21802
ECON 122
LOCATION NO. 4B

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60631 TEL./773/774-5900	USER NAME = $USER$	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

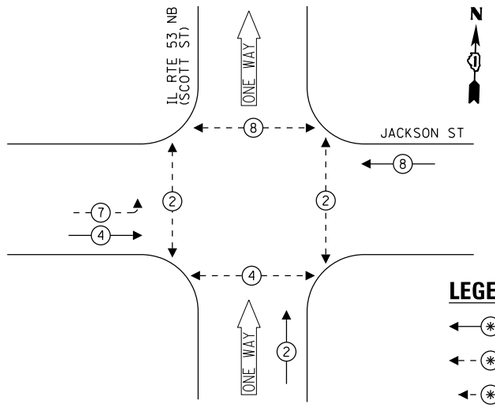
TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 53 NB (SCOTT ST) AT JACKSON ST

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	42
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\30_TS_21802_03_Jackson St-IL 53 Scott St_INT.dgn

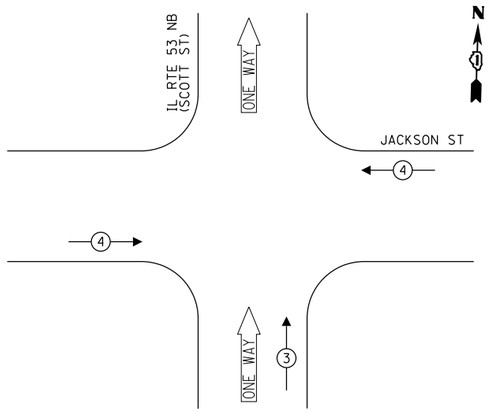
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	11	50	55.0
(YELLOW)	10	20	5	10.0
(GREEN)	10	12	45	54.0
PERMISSIVE ARROW	4	10	10	4.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	3	120	50	180.0
LUMINAIRE	2	240	50	134.0
			TOTAL =	978.0

ENERGY COSTS TO:

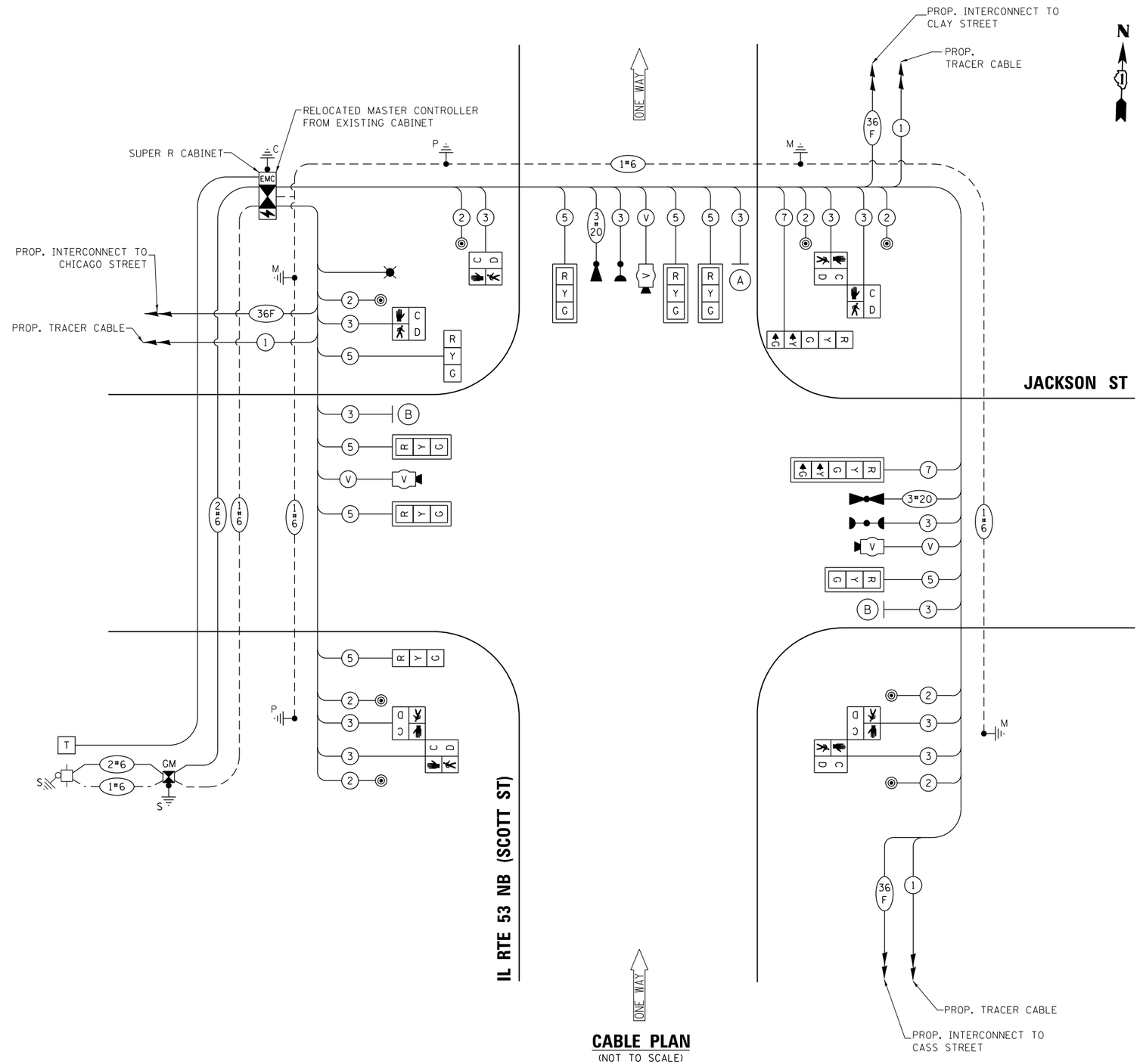
CITY OF JOLIET
150 W JEFFERSON STREET
JOLIET, IL 60432

ENERGY SUPPLY: CONTACT: ANNETTE KISALA
PHONE: (815) 724-5328
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER:

(A)
Jackson St
City of Joliet
ILLUMINATED SIGN
(1 REQUIRED)

(B)
Scott St
City of Joliet
ILLUMINATED SIGN
(2 REQUIRED)

NOTE: THE SIGNS ARE DOUBLE SIDED.



CABLE PLAN
(NOT TO SCALE)

TS 21802
ECON 122
LOCATION NO. 4B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\30.TS_21802.04_Jackson St-IL 53 Scott St.CD.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL: (773) 774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

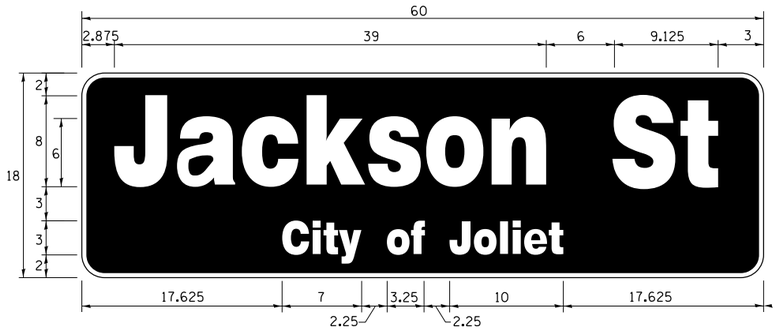
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 53 NB (SCOTT ST) AT JACKSON ST

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	43
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

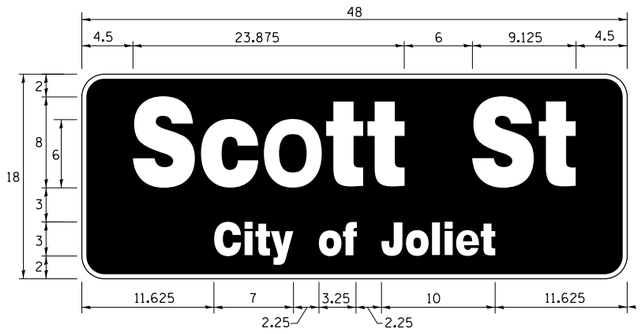
LED STREET NAME SIGNS

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	7.5	LED	N/A	1

SIGN SHALL BE DOUBLE-SIDED



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
TOP LINE: D BOT. LINE: D	6.0	LED	N/A	2

SIGN SHALL BE DOUBLE-SIDED

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE LED ILLUMINATED STREET NAME INSTALLATION AND WIRING DIAGRAM DETAIL.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
**	ROCK EXCAVATION	CU YD	4.5
**	DRILLED SHAFT IN ROCK	CU YD	8
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	287
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	20
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	306
	HANDHOLE	EACH	1
	DOUBLE HANDHOLE	EACH	2
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	931
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1360
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1013
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	330
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	213
	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	620
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 28 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	8
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	13
	DRILL EXISTING HANDHOLE	EACH	3
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	7
*	LIGHT DETECTOR	EACH	2
*	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	8
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	7
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
*	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	373
*	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
	FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
	SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
**	DIRECTIONAL BORING THROUGH ROCK	FOOT	490
	PEDESTRIAN SIGNAL POST, 10 FT	EACH	1
	VIDEO VEHICLE DETECTION SYSTEM, SINGLE APPROACH	EACH	3
	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
	CONCRETE FOUNDATION, TYPE A 10-INCH DIAMETER	FOOT	4
	RELOCATE EXISTING MASTER CONTROLLER	EACH	1
	TEMPORARY INFORMATION SIGNING	SQ FT	25.7
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
*	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	405

* 100% COST TO CITY OF JOLIET

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN DRILLING, EXCAVATING, AND/OR BORING FOR TEMPORARY WOOD POLES, CONCRETE FOUNDATIONS, HANDHOLES, AND CONDUIT.

TS 21802
ECON 122
LOCATION NO. 4B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\30_TS_21802_05_Jackson St-IL 53 Scott St_CD2.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL./773/774-5900

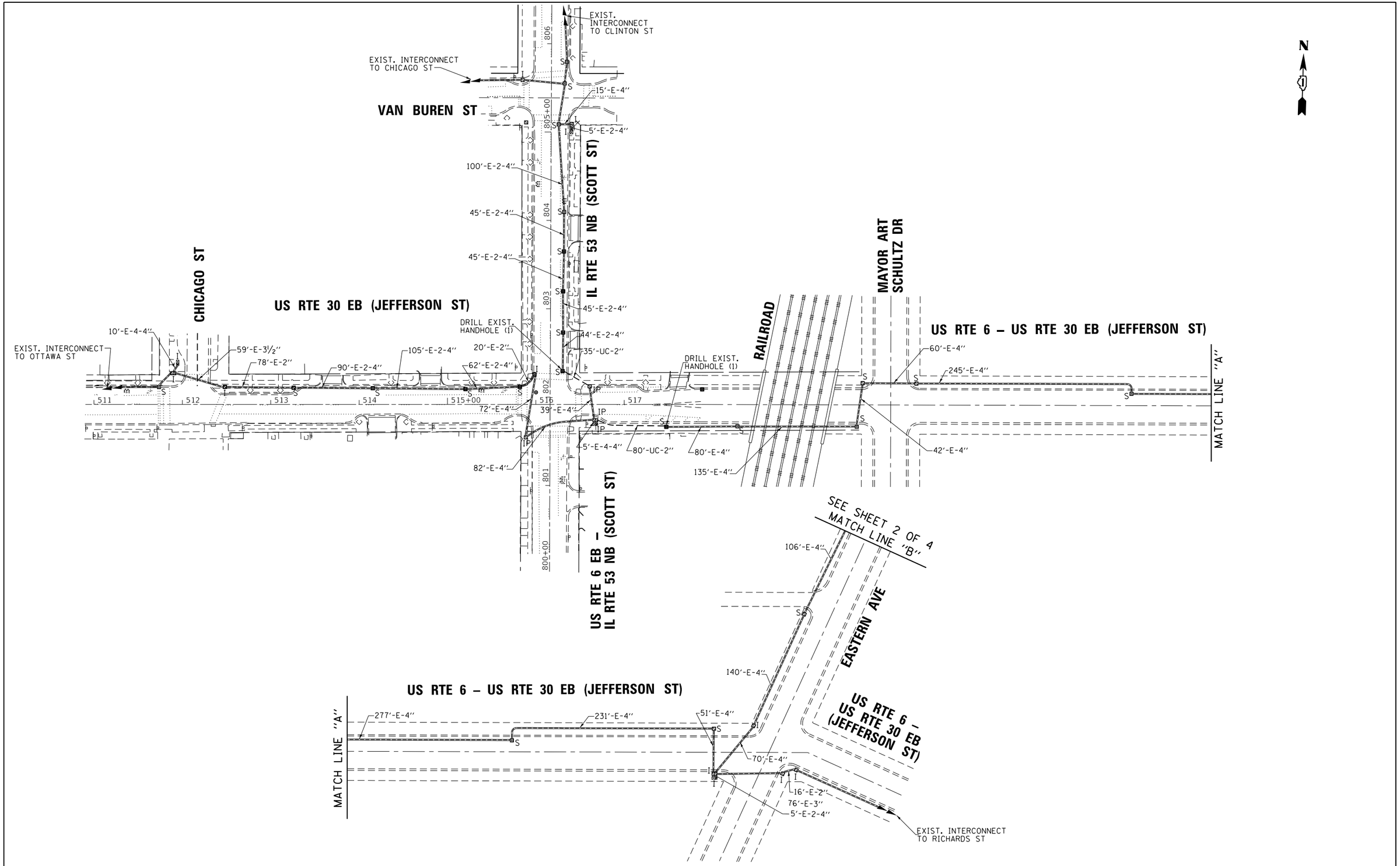
USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 40.0000 '/ in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED LED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
IL RTE 53 NB (SCOTT ST) AT JACKSON ST

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	44
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		



ECON 121, 122 & 123

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60631 TEL.(773)774-5900	USER NAME = $USER$	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 1 OF 4)
DOWNTOWN JOLIET

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	45
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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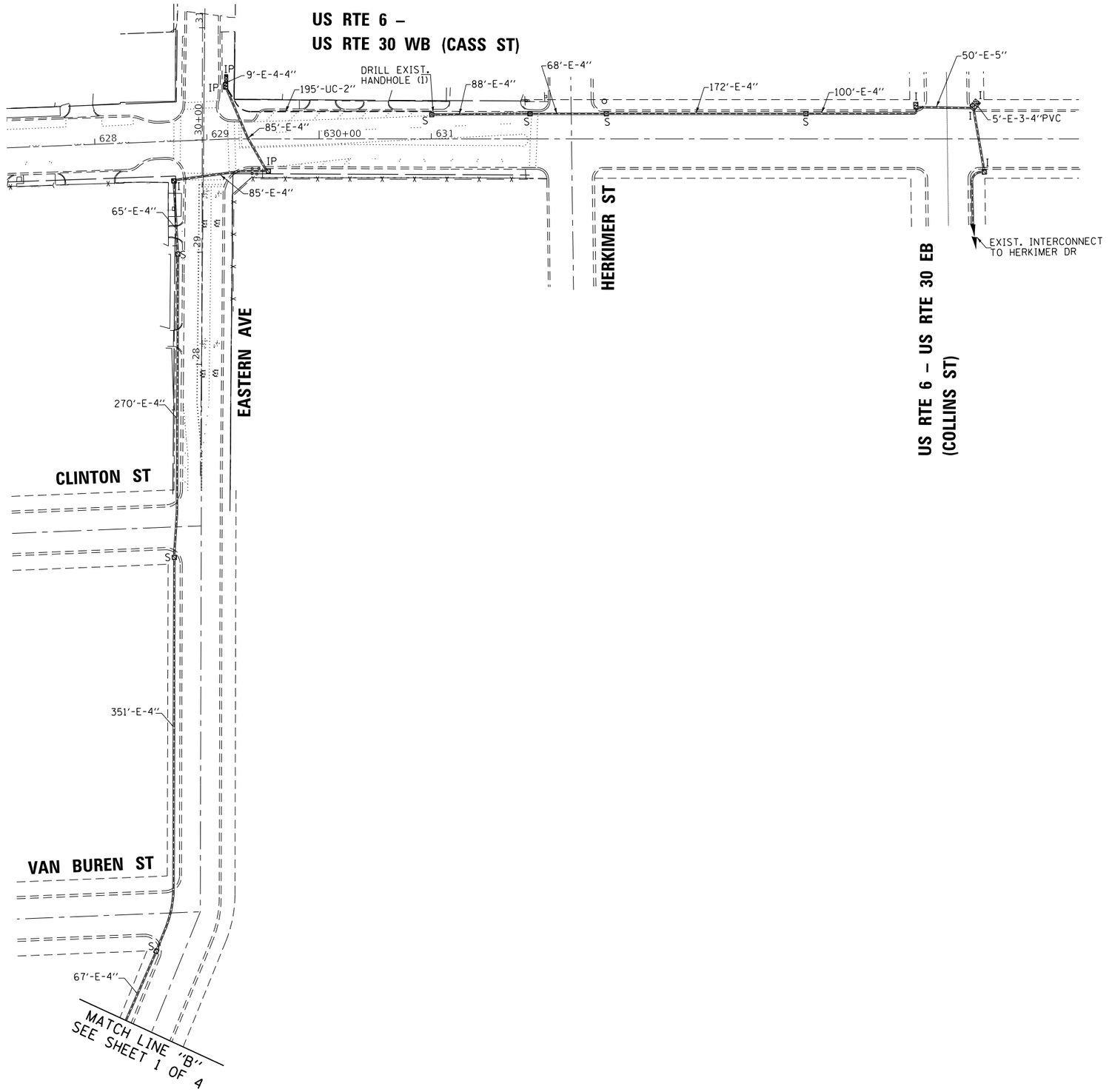

ECON 121, 122 & 123

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GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

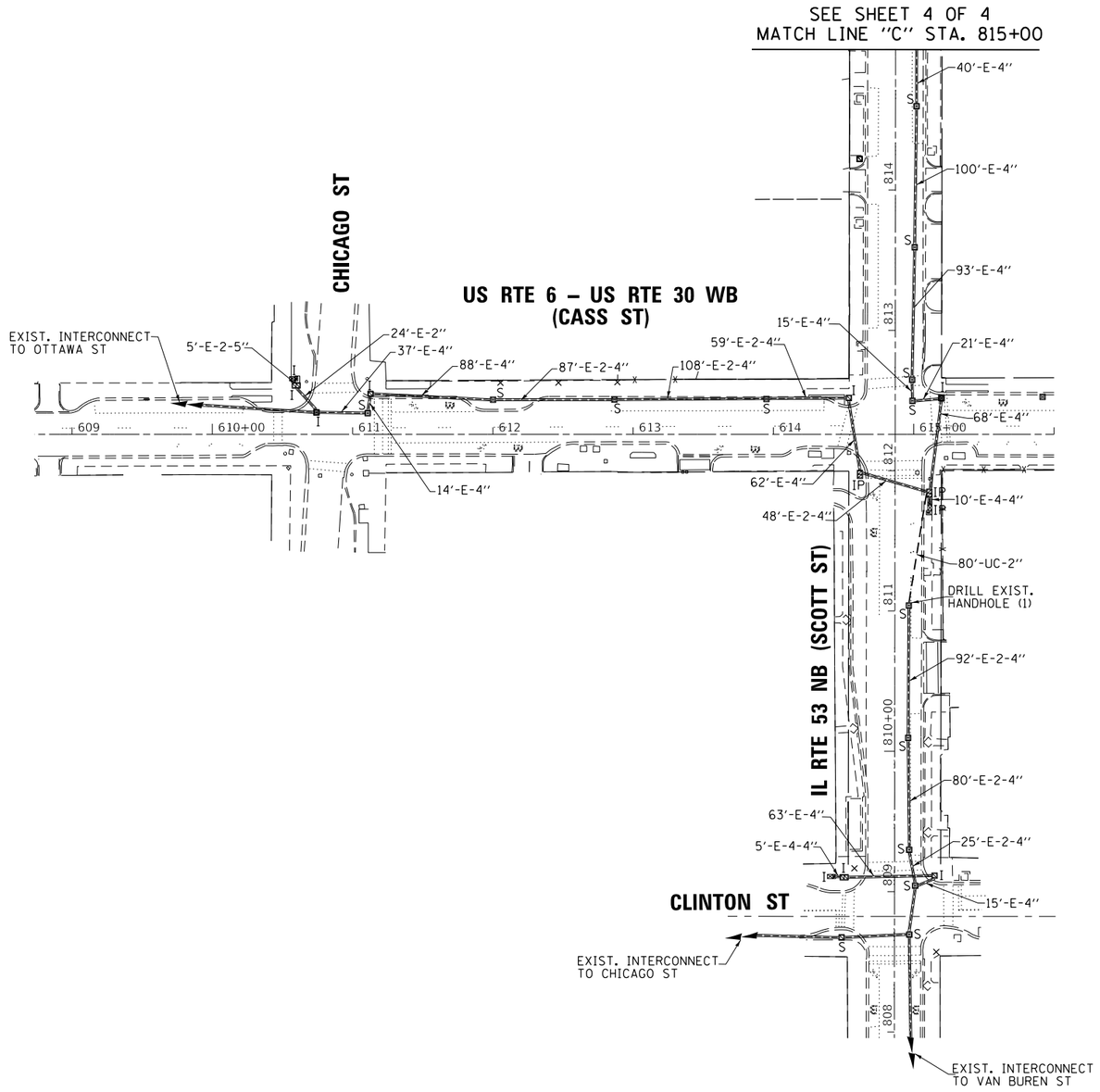
USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 2 OF 4)
DOWNTOWN JOLIET

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	46
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



ECON 121, 122 & 123

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60631 TEL.:773)774-5900	USER NAME = $USER$	DESIGNED - EA	REVISED -
		DRAWN - EA, AV	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG	REVISED -
	PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 3 OF 4)
DOWNTOWN JOLIET

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	47
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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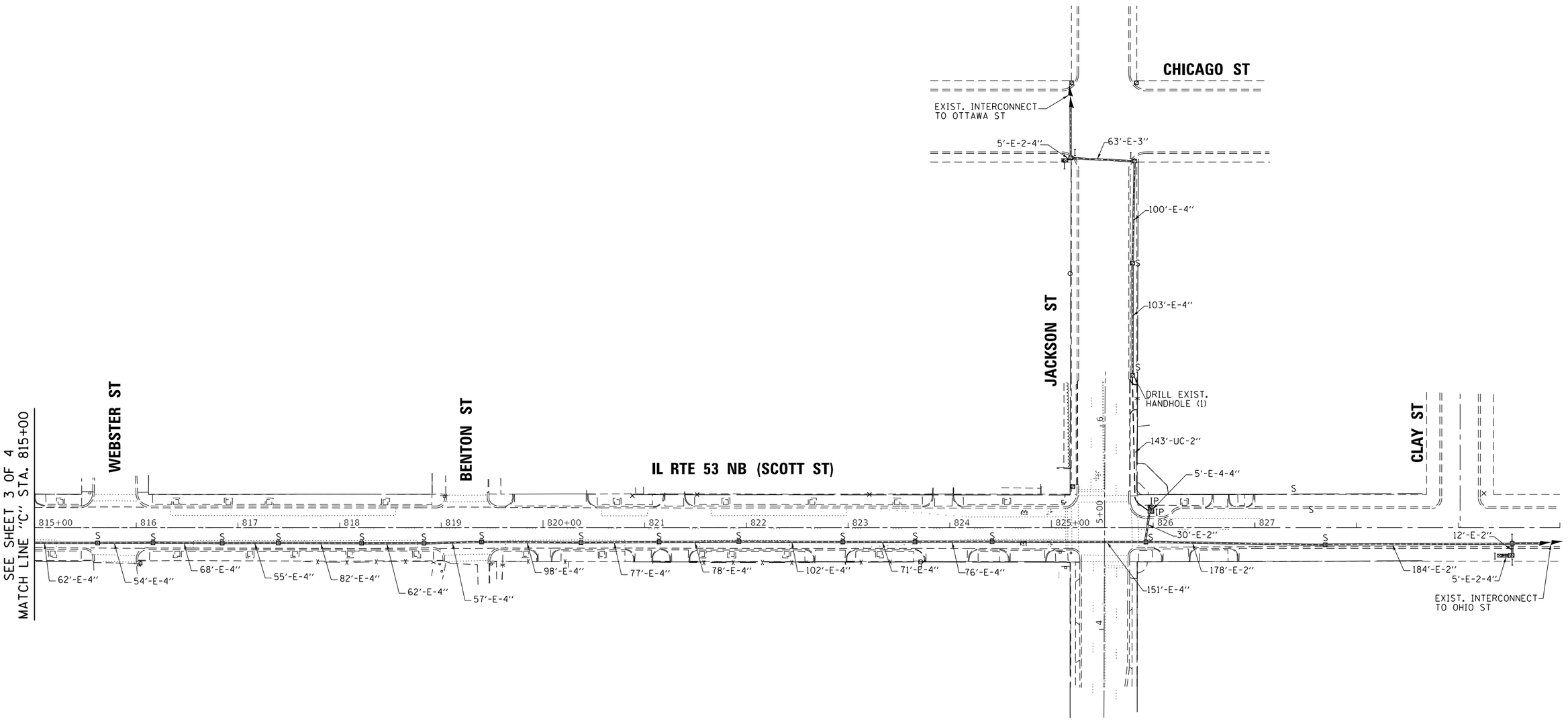

ECON 121, 122 & 123

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GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL: (773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 4 OF 4)
DOWNTOWN JOLIET

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	48
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

ECON 121, 122 & 123

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\61_TS.21802_Schem_Interconnect.1.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL: (773) 774-5900

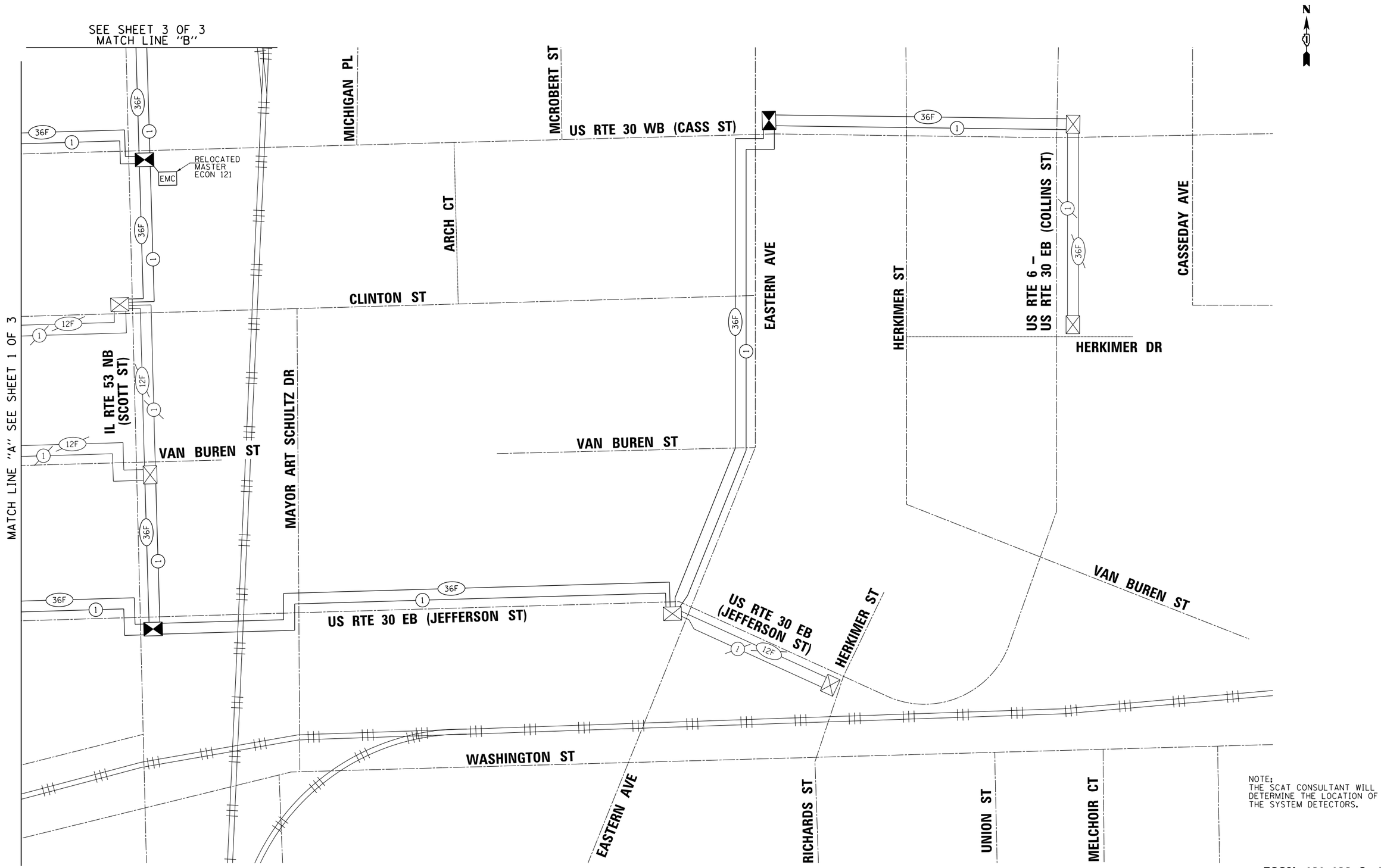
USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC (SHEET 1 OF 3)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	49
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE;
THE SCAT CONSULTANT WILL DETERMINE THE LOCATION OF THE SYSTEM DETECTORS.

ECON 121, 122 & 123

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\61.TS.21802.Schem.Interconnect_2.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

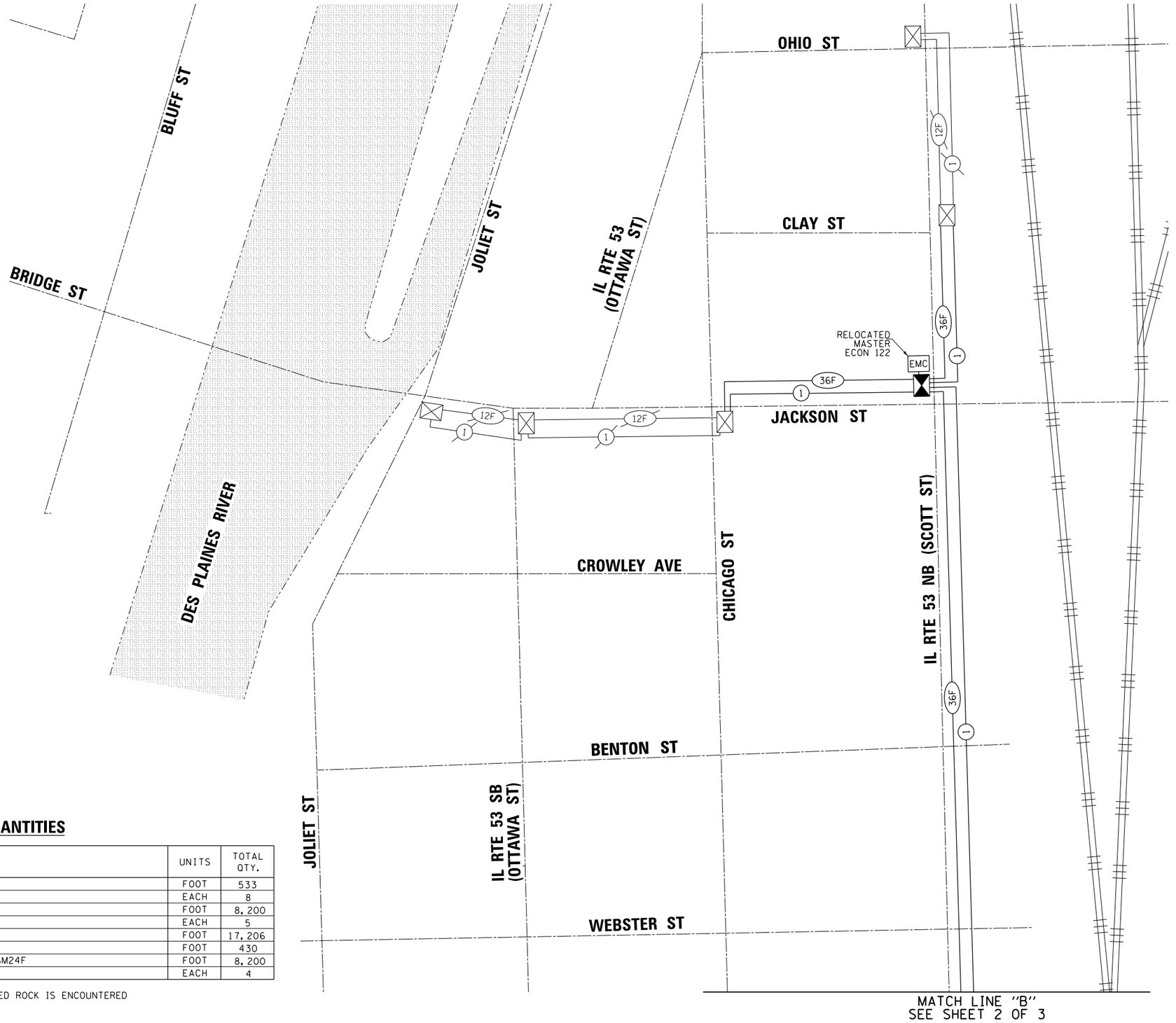
USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC
(SHEET 2 OF 3)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	50
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTE;
THE SCAT CONSULTANT WILL DETERMINE THE LOCATION OF THE SYSTEM DETECTORS.

SCHEDULE OF QUANTITIES

	ITEM DESCRIPTION	UNITS	TOTAL QTY.
	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	533
	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	8
	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	8,200
	DRILL EXISTING HANDHOLE	EACH	5
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	17,206
**	DIRECTIONAL BORING THROUGH ROCK	FOOT	430
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	8,200
	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	4

** NOMINAL QUANTITY HAS BEEN PROVIDED FOR AREAS WHERE BED ROCK IS ENCOUNTERED WHEN BORING FOR CONDUIT.

ECON 121, 122 & 123

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\61_TS_21802_Schem_Interconnect_3.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

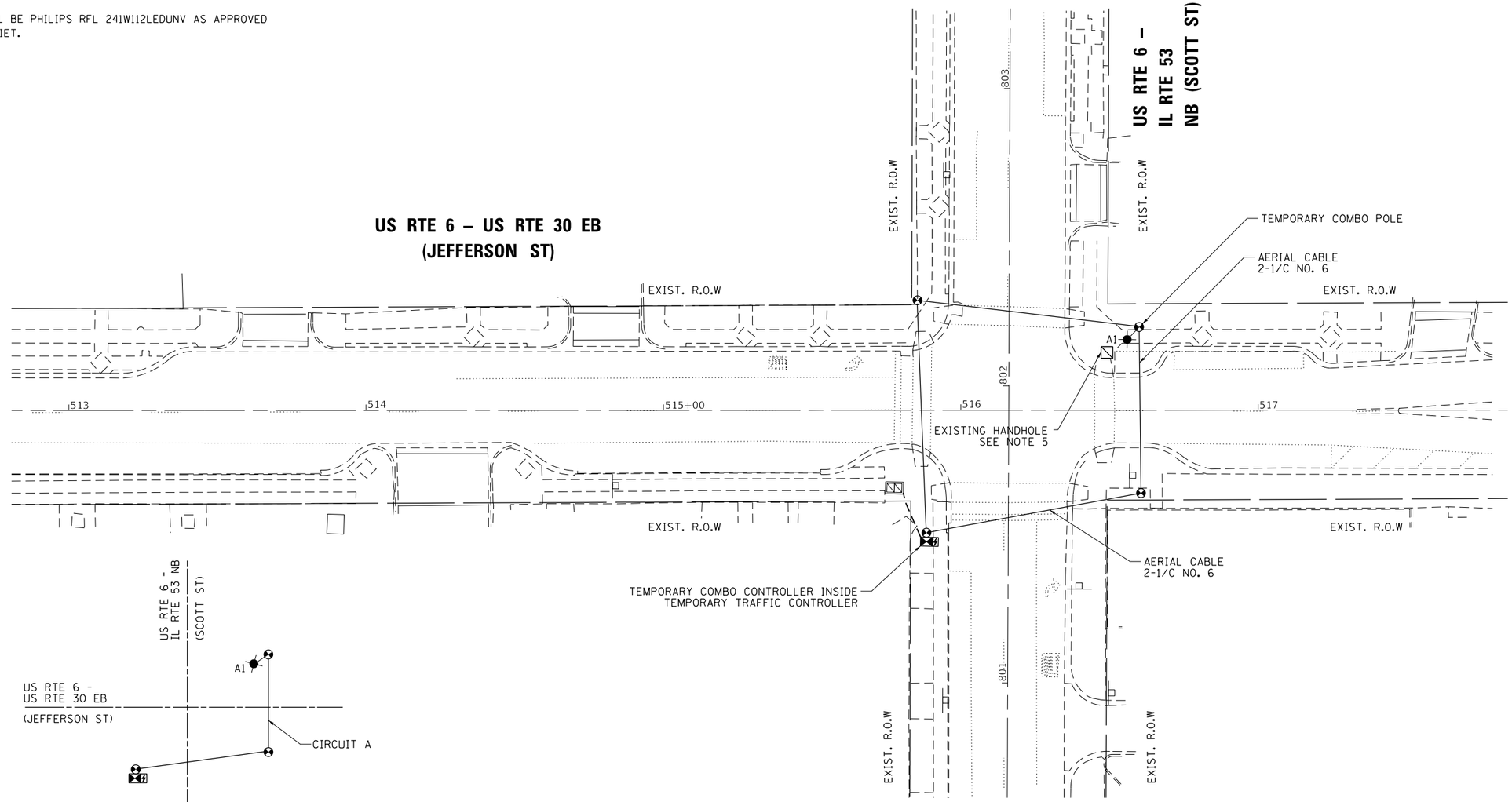
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES (SHEET 3 OF 3)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	51
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



ONE LINE DIAGRAM

NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
4. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
5. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE TEMPORARY COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE TEMPORARY COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.
6. THE TEMPORARY COMBINATION LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	195
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	1
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

LOCATION NO. 1B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.:773/774-5900

USER NAME = $USER$	DESIGNED - MA	REVISED -
	DRAWN - SA	REVISED -
PLOT SCALE = 40.0001 ' / in.	CHECKED - MA	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING COMBINATION POLE PLAN
US RTE 30 EB (JEFFERSON ST) AT US RTE 6 – IL RTE 53 NB (SCOTT ST)

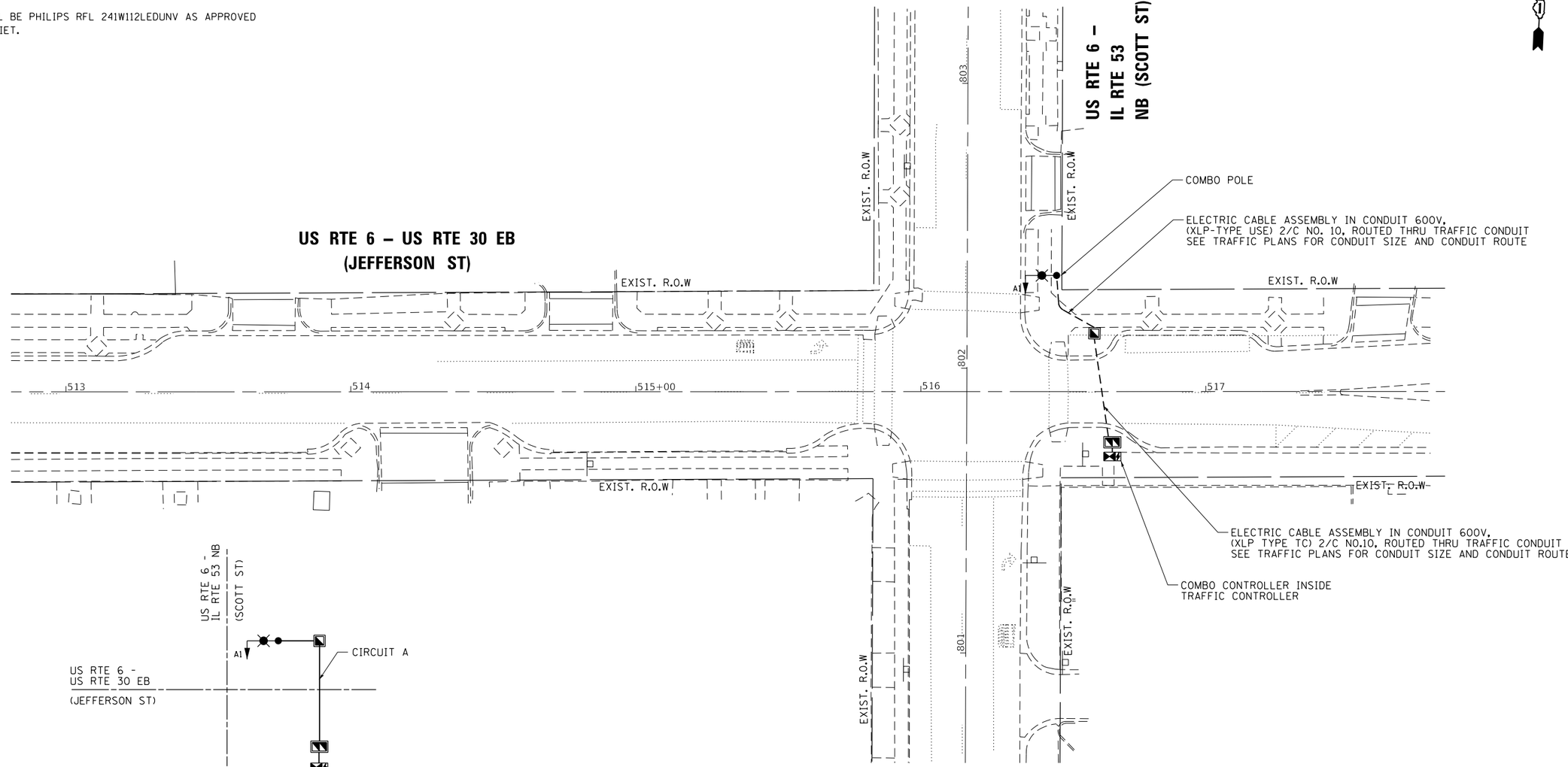
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	52
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\62_02_LT_22531_03_Jefferson St-Scott St_Lighting-Temp.dgn

COMBINATION LIGHT POLE
45 FT. LUMINAIRE MOUNTING HEIGHT
15 FT. LUMINAIRE MAST ARM
LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



ONE LINE DIAGRAM

NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE TEMPORARY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM, MAINTENANCE OF LIGHTING SYSTEM.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	200
LUMINAIRE, LED, SPECIAL	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

LOCATION NO. 1B

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\63.02_LT_2253_03_Jefferson St-Scott St_Lighting.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL./773/774-5900

USER NAME = $USER$	DESIGNED - MA	REVISED -
	DRAWN - SA	REVISED -
PLOT SCALE = 40.0001 ' / in.	CHECKED - MA	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

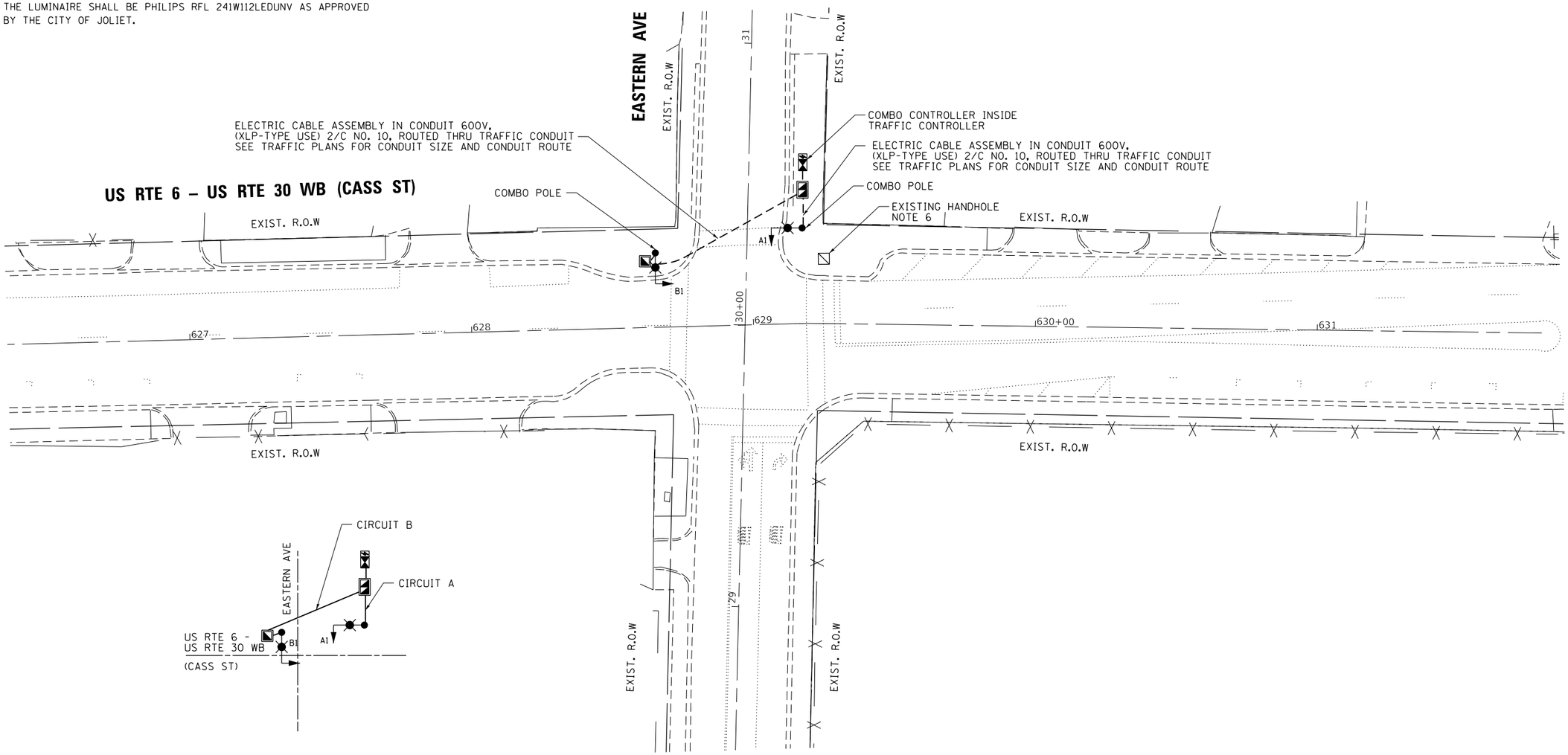
PROPOSED LIGHTING COMBINATION POLE PLAN
US RTE 30 EB (JEFFERSON ST) AT US RTE 6 – IL RTE 53 NB (SCOTT ST)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	53
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

COMBINATION LIGHT POLE
45 FT. LUMINAIRE MOUNTING HEIGHT
15 FT. LUMINAIRE MAST ARM
LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



ONE LINE DIAGRAM

NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE NEW COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	547
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2

LOCATION NO. 2B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.:773)774-5900

USER NAME = $USER$	DESIGNED - MA	REVISED -
	DRAWN - SA	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

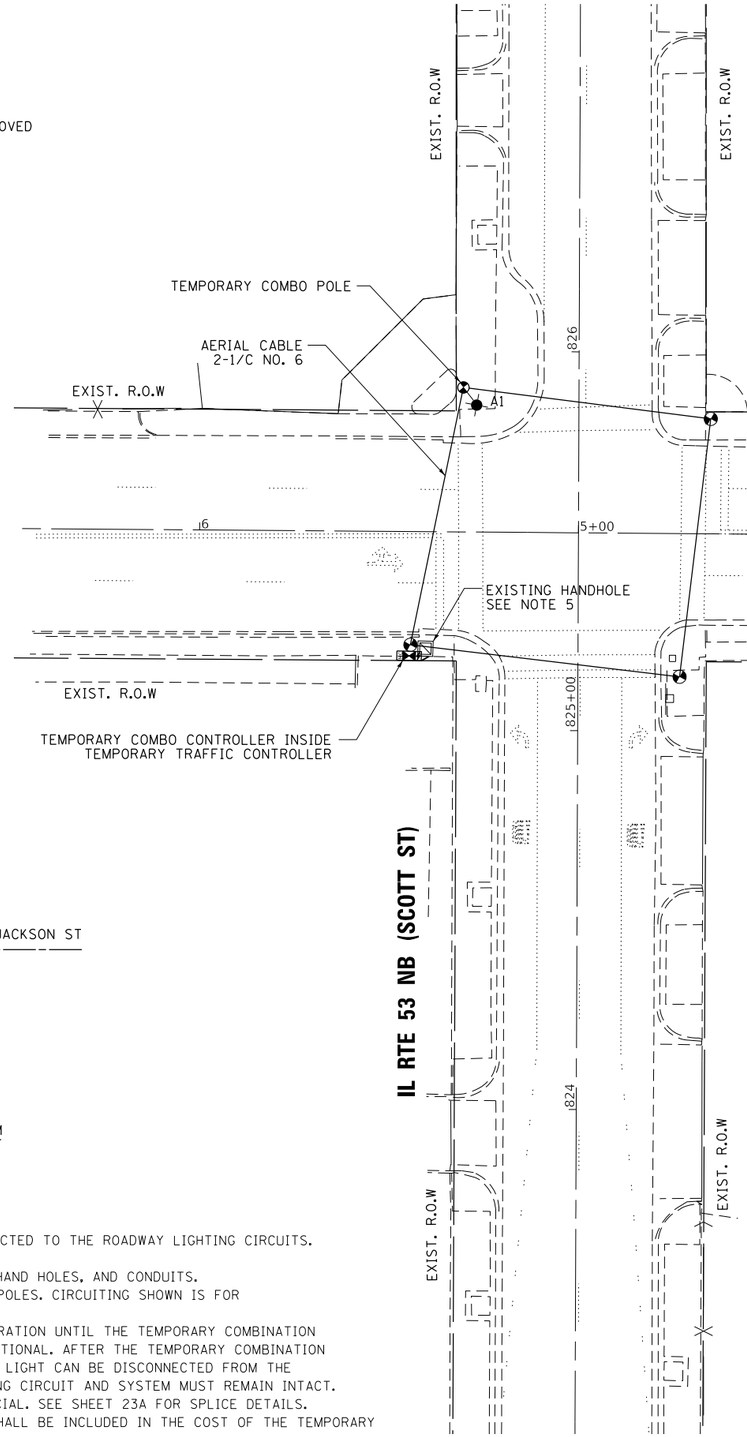
PROPOSED LIGHTING COMBINATION POLE PLAN
US RTE 6 – US RTE 30 WB (CASS ST) AT EASTERN AVE

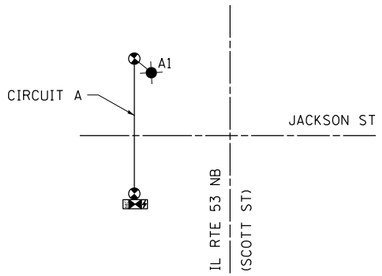
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	54
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\64.09\LT.21780.03_Cass St-Eastern Ave_Lighting.dgn

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.





ONE LINE DIAGRAM

NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
4. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
5. THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE TEMPORARY COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. AFTER THE TEMPORARY COMBINATION LIGHTING IS OPERATIONAL, THE EXISTING COMBINATION LIGHT CAN BE DISCONNECTED FROM THE EXISTING LIGHTING CIRCUIT. THE REST OF THE LIGHTING CIRCUIT AND SYSTEM MUST REMAIN INTACT. THIS WORK SHALL BE PAID FOR AS CABLE SPLICE SPECIAL. SEE SHEET 23A FOR SPLICE DETAILS.
6. THE TEMPORARY COMBINATION LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
AERIAL CABLE, 2-1/C NO. 6 WITH MESSENGER WIRE	FOOT	135
CABLE SPLICE SPECIAL	EACH	1
LUMINAIRE, LED, SPECIAL	EACH	1
TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

LOCATION NO. 4B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N.NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

USER NAME = $USER$	DESIGNED - MA	REVISED -
	DRAWN - SA	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING COMBINATION POLE PLAN
IL RTE 53 NB (SCOTT ST) AT JACKSON ST

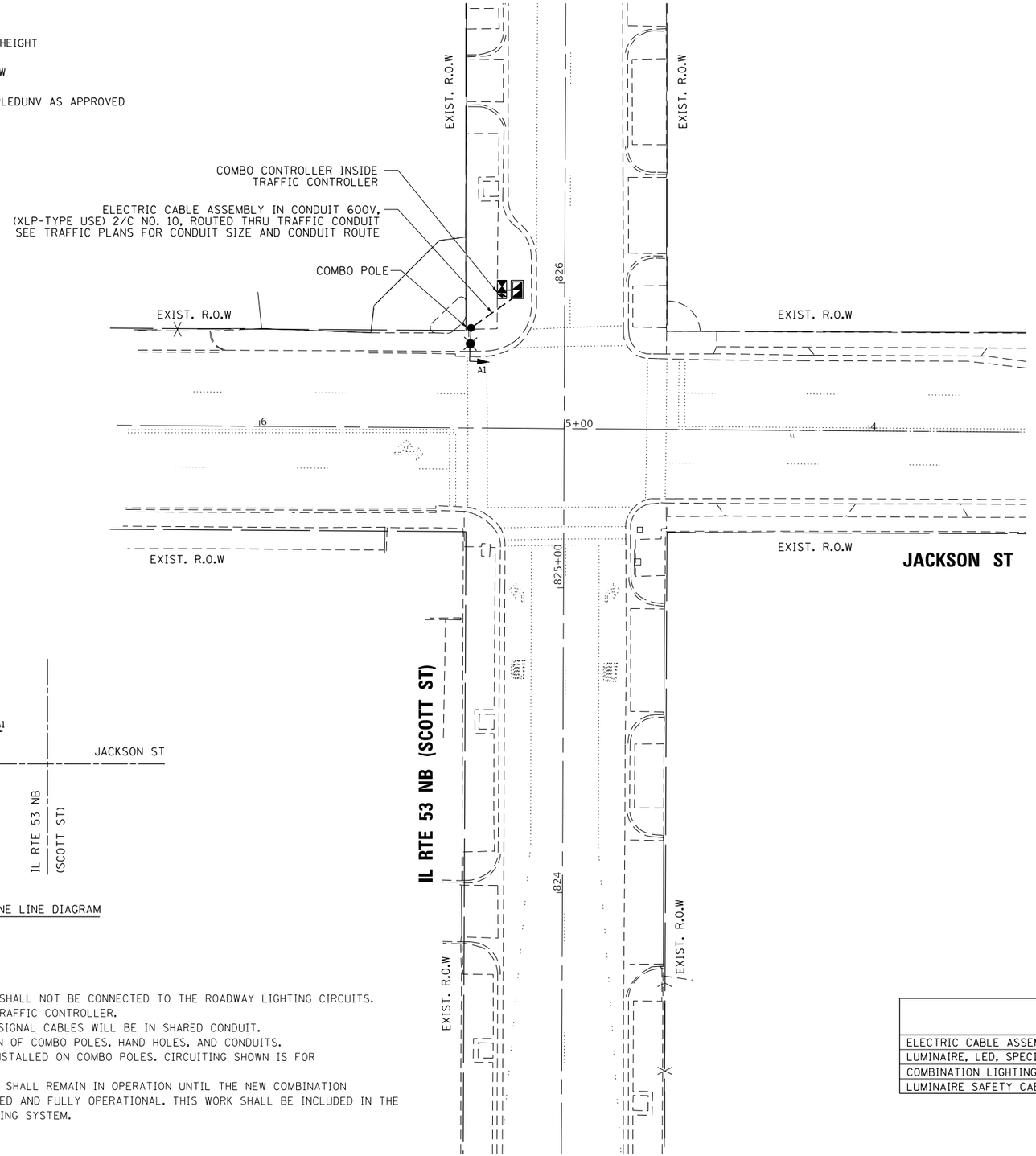
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	55
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\71.30.LT.21802.03.Jackson St-IL 53 Scott St-Lighting-Temp.dgn

COMBINATION LIGHT POLE
45 FT. LUMINAIRE MOUNTING HEIGHT
15 FT. LUMINAIRE MAST ARM
LUMINAIRE, PHILIPS LED, 240W

THE LUMINAIRE SHALL BE PHILIPS RFL 241W112LEDUNV AS APPROVED BY THE CITY OF JOLIET.



ONE LINE DIAGRAM

NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. THE TEMPORARY LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE NEW COMBINATION LIGHTING IS COMPLETELY INSTALLED AND FULLY OPERATIONAL. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM, MAINTENANCE OF LIGHTING SYSTEM.

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	218
LUMINAIRE, LED, SPECIAL	EACH	1
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	1

LOCATION NO. 4B

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL./773/774-5900

USER NAME = $USER$	DESIGNED - MA	REVISED -
	DRAWN - SA	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - MA	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

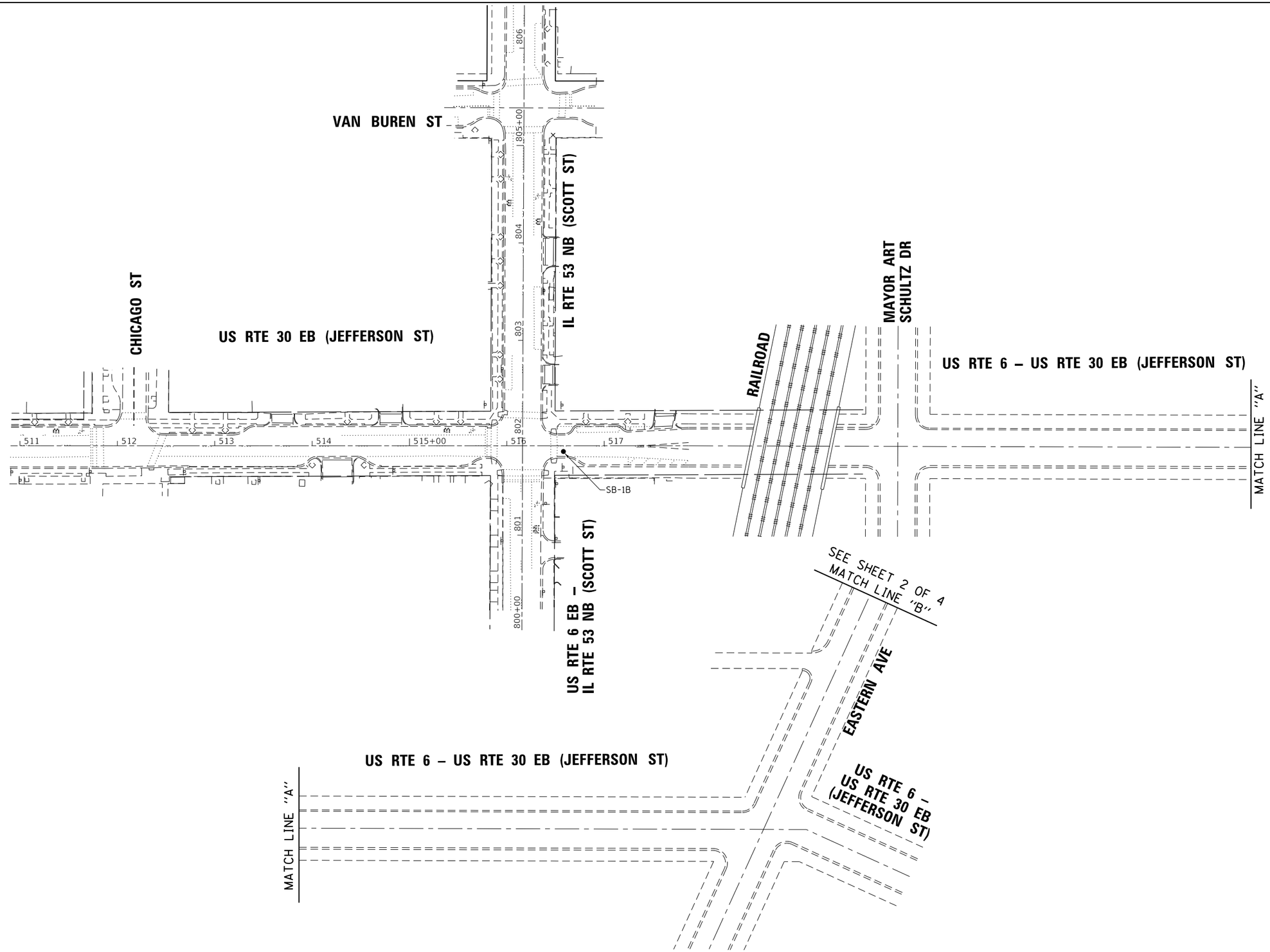
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING COMBINATION POLE PLAN
IL RTE 53 NB (SCOTT ST) AT JACKSON ST

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	56
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\72.30.LT.21802.03_Jackson St-IL 53 Scott St_Lighting.dgn



FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\77_TS_21802_Soil Boring_1.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

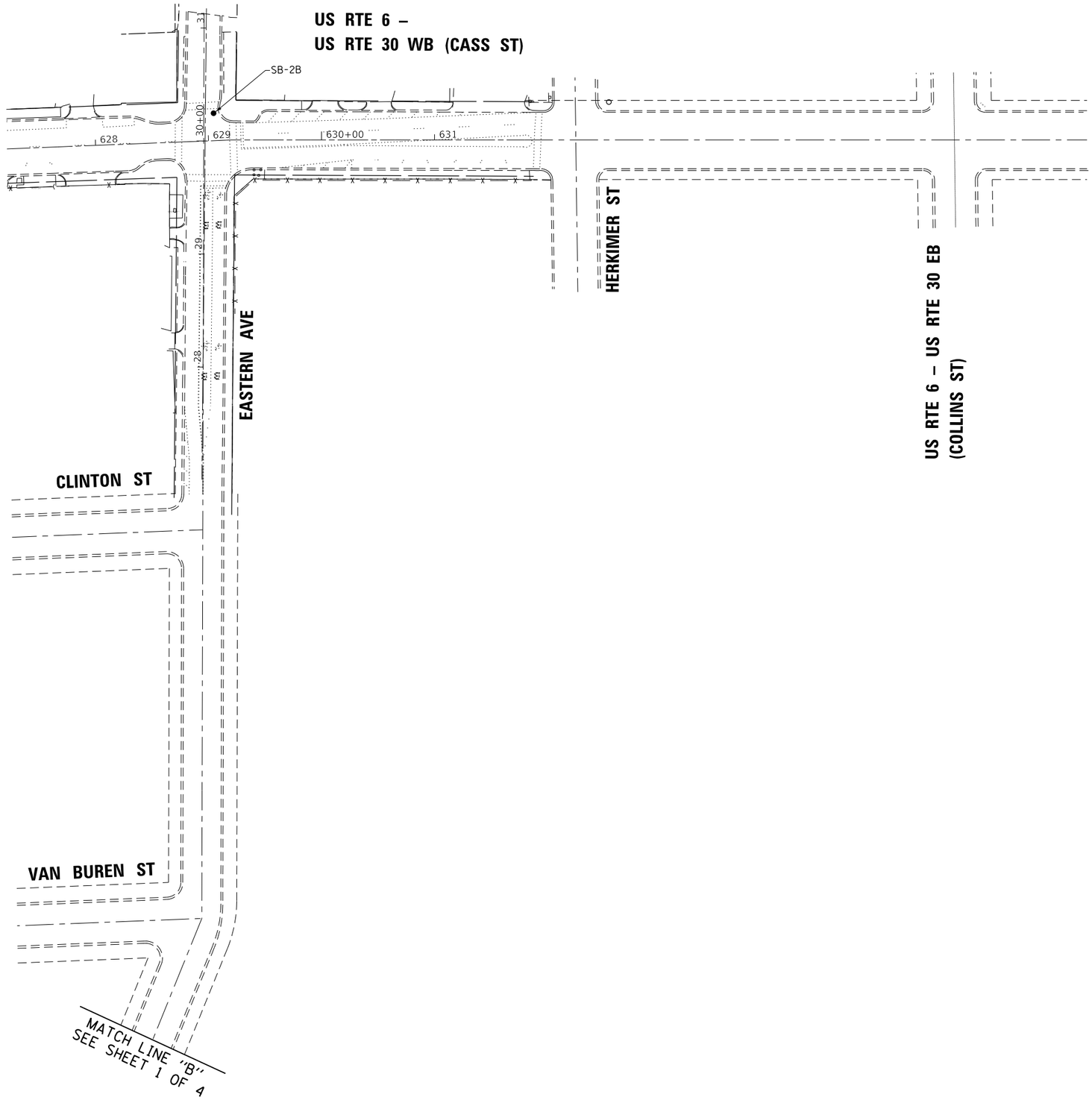
USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOCATION MAP (SHEET 1 OF 4)
DOWNTOWN JOLIET

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	57
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\78.TS.21802.Soil Boring-2.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

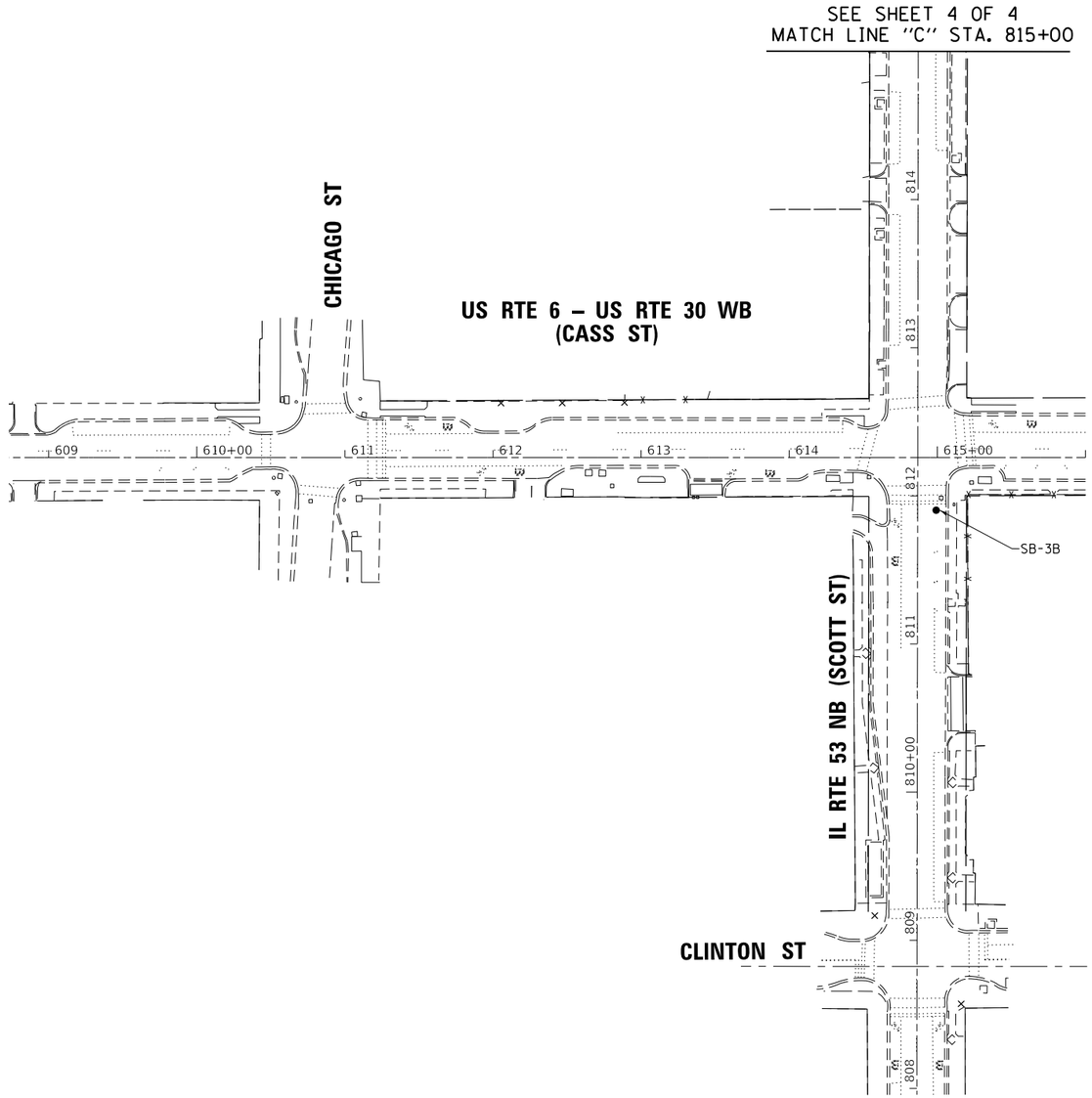
USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOCATION MAP (SHEET 2 OF 4)
DOWNTOWN JOLIET

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	58
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\79_TS_21802_Soil Boring_3.dgn

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.(773)774-5900

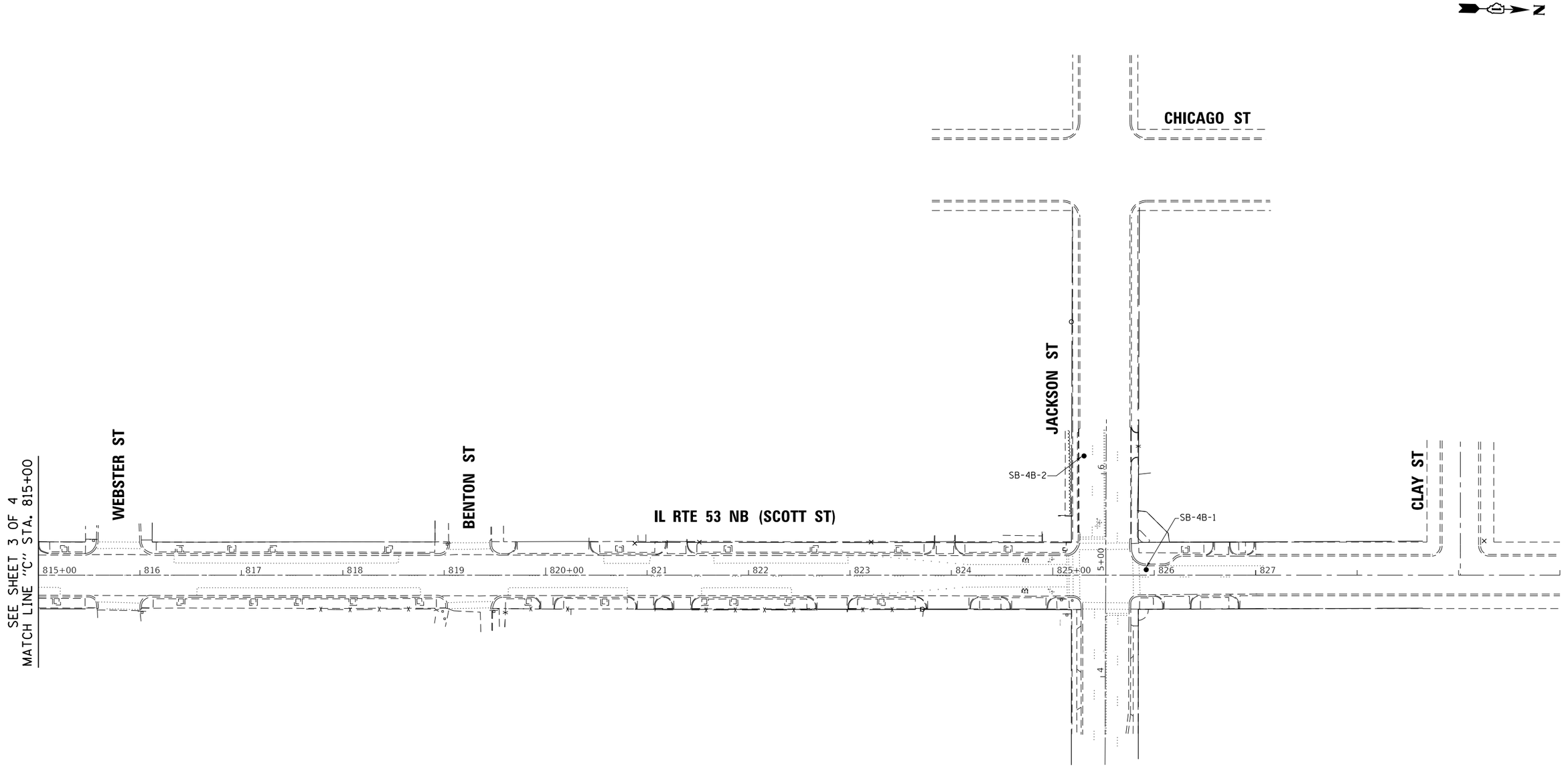
USER NAME = $USER$	DESIGNED - EA	REVISED -
	DRAWN - EA, AV	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG	REVISED -
PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOCATION MAP (SHEET 3 OF 4)
DOWNTOWN JOLIET

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	59
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



FILE NAME = K:\PROJECTS\Projects 2018\IDOT Joliet Roads\Contract 2\80_ITS_21802_Soil Boring_4.dgn

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60631 TEL:(773)774-5900	USER NAME = $USER$	DESIGNED - EA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOCATION MAP (SHEET 4 OF 4) DOWNTOWN JOLIET
		DRAWN - EA, AV	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG	REVISED -		
	PLOT DATE = $DATE$	DATE - 6/1/2020	REVISED -		SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-196-TS&I	WILL	65	60
		CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation

Soil Boring Log

Route: Jefferson St Structure No.: _____ (Exist.) _____ (Prop.) Date: 06/29/2 Page: ____ of ____

Section: 2020-196-TS&I Description: @ Scott St

County: WILL Drilling Method: Mobile B-57, 3.25" HSA Hammer Type: AUTO

Boring No.: SB-1B Logged by: M. Esposito Jr.

Station: 516+63
Offset: 8 Rt CL
Latitude: _____
Longitude: _____
Ground Surface El.: _____ ft

Surface Water Elev.: _____ ft
Groundwater Elev.
First Encounter: _____ ft
Upon Completion: _____ ft
After _____ Hours _____ ft

Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)
Bit Pavement 14.5"					
No Bedrock within 5'		-5			
		-10			
		-15			
		-20			

Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)
		-25			
		-30			
		-35			
		-40			

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208.
The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing.
The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

File Name: BBS 137.docx Printed: 7/17/2020 10:44 AM BBS 137 (Rev. 01/04/2012)

Illinois Department of Transportation

Soil Boring Log

Route: Cass St Structure No.: _____ (Exist.) _____ (Prop.) Date: 06/29/2 Page: ____ of ____

Section: 2020-196-TS&I Description: @ Eastern Ave

County: WILL Drilling Method: Mobile B-57, 3.25" HSA Hammer Type: AUTO

Boring No.: SB-2B Logged by: M. Esposito Jr.

Station: 30+44
Offset: 12 Rt CL
Latitude: _____
Longitude: _____
Ground Surface El.: _____ ft

Surface Water Elev.: _____ ft
Groundwater Elev.
First Encounter: _____ ft
Upon Completion: _____ ft
After _____ Hours _____ ft

Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)
Bit Pavement 9.5"					
No Bedrock within 5'		-5			
		-10			
		-15			
		-20			

Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)
		-25			
		-30			
		-35			
		-40			

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208.
The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing.
The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

File Name: BBS 137.docx Printed: 7/17/2020 10:45 AM BBS 137 (Rev. 01/04/2012)

FILE NAME = S:\WP\Design\lovan\03_InHouse_TrafficLet\1_Phase2\62H79 Joliet\CADD\D111619-sht-ts.dgn	USER NAME = plascencia	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 7/17/2020	DATE - 7/15/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(SHEET 1 OF 3)

SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	61
		CONTRACT NO. 62M72		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation

Soil Boring Log

Route: Cass St Structure No.: _____ (Exist.) _____ (Prop.) Date: 06/29/2 Page: ____ of ____

Section: 2020-196-TS&I Description: @ Scott St

County: WILL Drilling Method: Mobile B-57, 3.25" HSA Hammer Type: AUTO

Boring No.: SB-3B Logged by: M. Esposito Jr.

Station: 811+74
Offset: 8 Rt CL
Latitude: _____
Longitude: _____
Ground Surface El.: _____ ft

Surface Water Elev.: _____ ft
Groundwater Elev.
First Encounter: _____ ft
Upon Completion: _____ ft
After _____ Hours _____ ft

Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)	Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)
Pavement 14"											
Weathered Bedrock @ Approx 2.5'											
Drilled to 5'		-5						-25			
		-10						-30			
		-15						-35			
		-20						-40			

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208.
The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing.
The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

File Name: BBS 137.docx Printed: 7/17/2020 10:41 AM BBS 137 (Rev. 01/04/2012)

FILE NAME = S:\WP\Design\Iovan\03_InHouse_TrafficLet\1_Phase2\62H79 Joliet\CADD\D111619-sht-ts.dgn	USER NAME = plascencia	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 7/17/2020	DATE - 7/15/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(SHEET 2 OF 3)

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	62
		CONTRACT NO. 62M72		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation

Soil Boring Log

Route: Scott St Structure No.: _____ (Exist.) _____ (Prop.) Date: 06/29/2 Page: ____ of ____

Section: 2020-196-TS&I Description: @ Jackson St

County: WILL Drilling Method: Mobile B-57, 3.25" HSA Hammer Type: AUTO

Boring No.: SB-4B-1 Logged by: M. Esposito Jr.

Station: 826+00
Offset: 9 Lt CL
Latitude: _____
Longitude: _____
Ground Surface El.: _____ ft

Surface Water Elev.: _____ ft
Groundwater Elev.
First Encounter: _____ ft
Upon Completion: _____ ft
After _____ Hours _____ ft

Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)
Bit Pavement 9.75"					
Weathered Bedrock @ Approx 4'					
Drilled to 5'		-5			
		-10			
		-15			
		-20			

Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)
		-25			
		-30			
		-35			
		-40			

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208.
The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing.
The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

File Name: BBS 137.docx Printed: 7/17/2020 10:43 AM BBS 137 (Rev. 01/04/2012)

Illinois Department of Transportation

Soil Boring Log

Route: Jackson St Structure No.: _____ (Exist.) _____ (Prop.) Date: 06/29/2 Page: ____ of ____

Section: 2020-196-TS&I Description: @ Scott St

County: WILL Drilling Method: Mobile B-57, 3.25" HSA Hammer Type: AUTO

Boring No.: SB-4B-2 Logged by: M. Esposito Jr.

Station: 6+25
Offset: 14 Rt CL
Latitude: _____
Longitude: _____
Ground Surface El.: _____ ft

Surface Water Elev.: _____ ft
Groundwater Elev.
First Encounter: _____ ft
Upon Completion: _____ ft
After _____ Hours _____ ft

Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)
Bit Pavement 9.75"					
No Bedrock within 5'		-5			
		-10			
		-15			
		-20			

Soil Type, Description & Observations	ELEV. (ft)	DEPTH (ft)	BLOWS /6 in.	U.C.S. Qu (tsf)	MOIST. (%)
		-25			
		-30			
		-35			
		-40			

The U.C.S. Qu column represents the Unconfined Compressive Strength using either the IDOT Rimac Test Procedure or AASHTO 208.
The Qu failure mode is indicated by B for Bulge or S for Shear. P is shown when sample disturbance only allows Penetrometer testing.
The Standard Penetration Test (SPT) N value is the sum of the second and third Blows /6 in. values in each sample using AASHTO T 206.

File Name: BBS 137.docx Printed: 7/17/2020 10:42 AM BBS 137 (Rev. 01/04/2012)

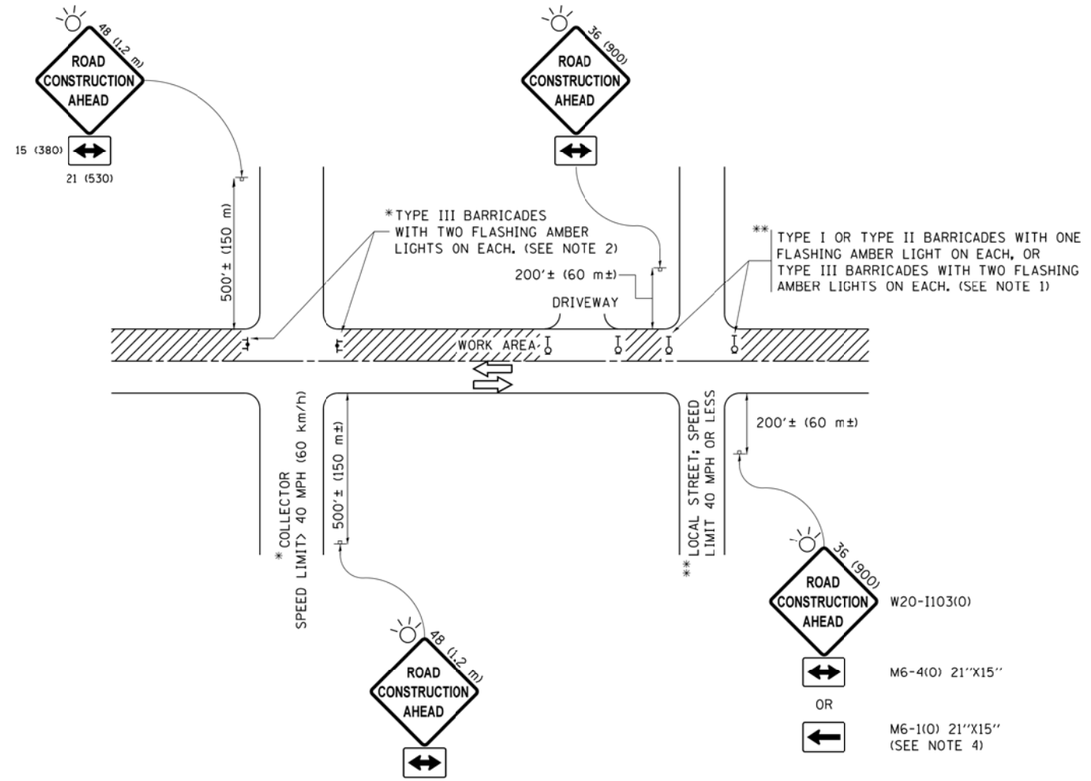
FILE NAME = S:\WP\Design\lovan\03_InHouse_TrafficLet\1_Phase2\62H79 Joliet\CADD\D111619-sht-ts.dgn	USER NAME = plascencia	DESIGNED - IP	REVISED -
		DRAWN - IP	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 7/17/2020	DATE - 7/15/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(SHEET 3 OF 3)

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	63
		CONTRACT NO. 62M72		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist\Default	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
		DRAWN - \CADData\CADsheets\tc10.dgn	REVISED -T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

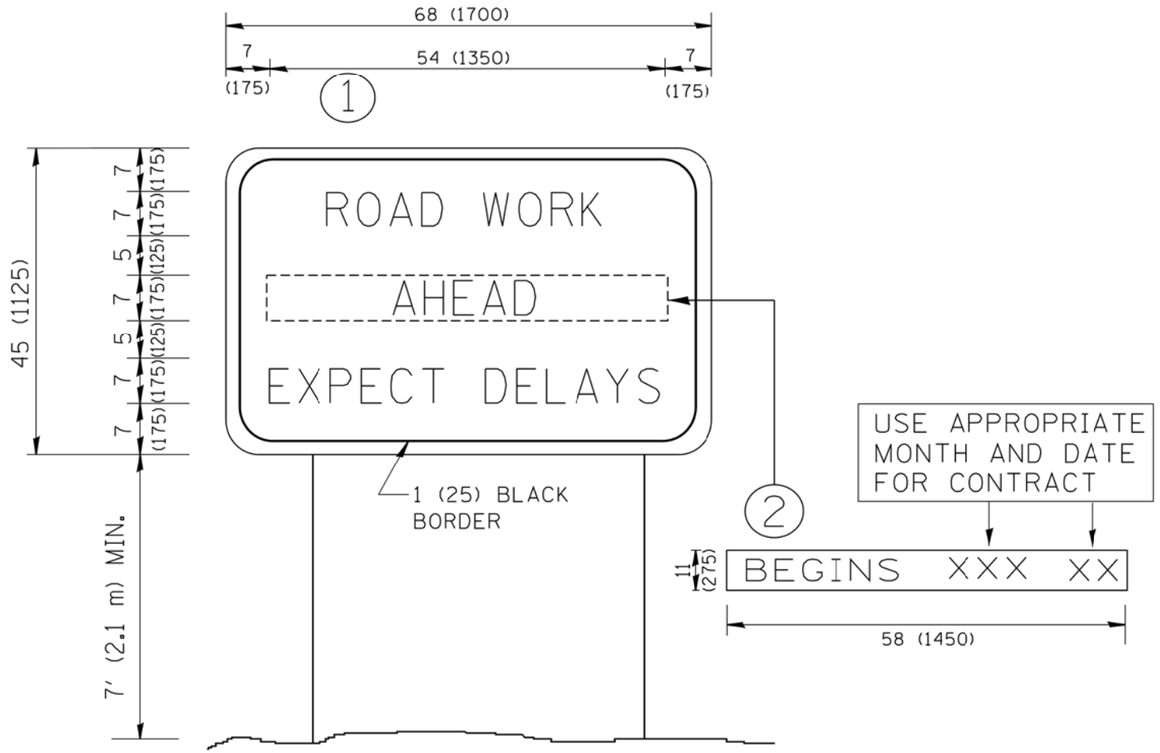
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	64
	TC-10	CONTRACT NO. 62M72		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

tc10.dgn 9/15/2016 12:46:49 PM User=footemj



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE ''ROAD CONSTRUCTION AHEAD'' SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR ''TEMPORARY INFORMATION SIGNING'' FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2020-196-TS&I	WILL	65	65
	TC-22	CONTRACT NO. 62M72		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		